

SEQUENCE LISTING

(1) GENERAL INFORMATION

- (i) APPLICANT: Hadlaczky, Gyula
Szalay, Aladar
 - (ii) TITLE OF THE INVENTION: ARTIFICIAL CHROMOSOMES, USES THEREOF
AND METHODS FOR PREPARING ARTIFICIAL CHROMOSOMES
 - (iii) NUMBER OF SEQUENCES: 34
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Heller Ehrman White & McAuliffe
 - (B) STREET: 4250 Executive Square, 7th Floor
 - (C) CITY: La Jolla
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 92037
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette
 - (B) COMPUTER: IBM Compatible
 - (C) OPERATING SYSTEM: DOS
 - (D) SOFTWARE: FastSEQ Version 1.5
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE: 28-NOV-2000
 - (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/835,682
 - (B) FILING DATE: 10-APR-1997
 - (C) CLASSIFICATION:
 - (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/695,191
 - (B) FILING DATE: 07-AUG-1996
 - (C) CLASSIFICATION:
 - (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/682,080
 - (B) FILING DATE: 15-JUL-1996
 - (C) CLASSIFICATION:
 - (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/629,822
 - (B) FILING DATE: 10-APR-1996
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Seidman, Stephanie L
 - (B) REGISTRATION NUMBER: 33,779
 - (C) REFERENCE/DOCKET NUMBER: 24601-402G
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 858-450-8403
 - (B) TELEFAX: 858-587-5360
 - (C) TELEX:
- (2) INFORMATION FOR SEQ ID NO:1:
- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1293 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:
 (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GAATTCATCA	TTTTTCANGT	CCTCAAGTGG	ATGTTTCTCA	TTTNCCATGA	TTTAAAGTTT	60
TCTCGCCATA	TTCCTGGTCC	TACAGTGTGC	ATTTCTCCAT	TTNCACGTT	TTNCAGTGAT	120
TTCGTCAATT	TCAAGTCCTC	AAGTGGATGT	TTCTCATTTN	CCATGAATTT	CAGTTTTCTN	180
GCCATATPCC	ACGTCCCTACA	GNGGACATTT	CTAAATTTNC	CACCTTTTTT	AGTTTTCTCT	240
GCCATATPCC	ACGTCCCTAAA	ATGTGTATTT	CTCGTTTNCC	GTGATTTTCA	GTTCCTCTCG	300
CAGATTCCAG	GTCCTATAAT	GTGCATTTCT	CATTTNNCAC	GTTTTTCAGT	GATTTCTGCA	360
TTTTTTCAAG	TCGGCAAGTG	GATGTTTCTC	ATTNCCATG	ATTNCCAGTT	TTCTTGNAAT	420
ATTCCATGTC	CTACAATGAT	CATTTTAAAT	TTTCCACCTT	TTCATTTTTT	CACGCCATAT	480
TTTCATGTCCT	AAAGTGTTATA	TTTCTCCTTT	TCCGCGATTT	TCAGTTTTCT	CGCCATATTC	540
CAGGTCCTAC	AGTGTGCATT	CCTCATTTTT	CACCTTTTTT	ACTGATTTTC	TCATTTTTTCA	600
AGTCGTCAAC	TGGATCTTTC	TAATTTTCCA	TGATTTTTCAG	TTATCTTGTC	ATATTCATG	660
TCCTACAGTG	GACATTTCTA	AATTTTCCAA	CTTTTCAAT	TTTTCTCGAC	ATATTGACG	720
TGCTAAAGTG	TGTATTTCTT	ATTTTCCGTG	ATTTTCAGTT	TTCTCGCCAT	ATTCCAGGTC	780
CTAATAGTGT	GCAATTTCTCA	TTTTTCACGT	TTTTTCAGTG	TTTCGTCAAT	TTTTCCAGTT	840
GTCAAGGGGA	TGTTTCTCAT	TTTCCATGAG	TGTCAGTTTT	CTTGCTATAT	TCCATGTCTT	900
ACAGTGACAT	TTCTAAATAT	TATACCTTTT	TCAGTTTTTT	TCACCATATT	TCACGTCCTA	960
AAGTATATAT	TTCTCATTTT	CCCTGATTTT	CAGTTTCCTT	GCCATATTCC	AGGTCCCTACA	1020
GTGTGCATTT	CTCATTTTTT	ACGTTTTTCA	GTAATTTCTT	CATTTTTTAA	GCCCTCAAAT	1080
GGATGTTTCT	CATTTTCCAT	GATTTTCAGT	TTTCTTGCCA	TATACCATGT	CCTACAGTGG	1140
ACATTTCTAA	ATTATCCACC	TTTTTCAGTT	TTTCATCGGC	ACATTTTCAG	TCCTAAAGTG	1200
TGTATTTCTA	ATTTTCAGTG	ATTTTCAGTT	TTCTCGCCAT	ATTCCAGGAC	CTACAGTGTG	1260
CATTTCTCAT	TTTTTCACGT	TTTCAGTGAA	TTC			1293

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1044 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:
 (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

AGGCCTATGG	TGAAAAAGGA	AATATCTTCC	CCTGAAAACCT	AGACAGAAGG	ATTCTCAGAA	60
TCTTATTTGT	GATGTGCGCC	CCTCAACTAA	CAGTGTTGAA	GCTTTCTTTT	GATAGAGCAG	120
TTTTGAAACA	CTCTTTTTGT	AAAATCTGCA	AGAGGATATT	TGGATAGCTT	TGAGGATTTT	180
CGTTGGAAAC	GGGATTGTCT	TCATATAAAC	CCTAGACAGA	AGCATTCTCA	GAAGCTTCAT	240
TGGGATGTTT	CAGTTGAAGT	CACAGTGTG	AACAGTCCCC	TTTCATAGAG	CAGGTTTGAA	300
ACACTCTTTT	TTGTAGTATC	TGGAAGTGGA	CATTTGGAGC	GATCTCAGGA	CTGCGGTGAA	360
AAAGGAAATA	TCTTCCAATA	AAAGCTAGAT	AGAGGCAATG	TCAGAAACCT	TTTTCATGAT	420
GTATCTACTC	AGCTAACAGA	GTTGAACCTT	CCTTTGAGAG	AGCAGTTTTC	AAACACTCTT	480
TTTGTGGAAT	CTGCAAGTGG	ATATTTGTCT	AGCTTTGAGG	ATTTCTGTTG	GAAACGGGAT	540
TACATATAAA	AAGCAGACAG	CAGCATTCCC	AGAAACTTCT	TTGTGATGTT	TGCATTCAAG	600
TCACAGAGTT	GAACATTCCC	TTTCATAGAG	CAGGTTTGAA	ACACACTTTT	TGATGTATCT	660

GGATGTGGAC	ATTTGCAGCG	CTTTCAGGCC	TAAGGTGAAA	AGGAAATATC	TTCCCCTGAA	720
AACTAGACAG	AAGCATTCTC	AGAAACTTAT	TTGTGATGTG	CGCCCTCAAC	TAACAGTGTT	780
GAAGCTTTCT	TTTGATAGAG	GCAGTTTTGA	AACACTCTTT	TGTGGAATCT	GCAAGTGGAT	840
ATTGTCTAG	CTTTGAGGAT	TTCTTTGGAA	ACGGGATTAC	ATATAAAAAG	CAGACAGCAG	900
CATTCCCAGA	ATCTTGTGTTG	TGATGTTTGC	ATTCAAGTCA	CAGAGTTGAA	CATTCCCTTT	960
CAGAGAGCAG	GTTTGAACAC	TCTTTTTATA	GTATCTGGAT	GTGGACATTT	GGAGCGCTTT	1020
CAGGGGGGAT	CCTCTAGAAT	TCCT				1044

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2492 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTGCAGCTGG	GGGTCTCCAA	TCAGGCAGGG	GCCCTTACT	ACTCAGATGG	GGTGGCCGAG	60
TAGGGGAAGG	GGGTGCAGGC	TGCATGAGTG	GACACAGCTG	TAGGACTACC	TGGGGGCTGT	120
GGATCTATGG	GGGTGGGGAG	AAGCCCAGTG	ACAGTGCCTA	GAAGAGACAA	GGTGGCCTGA	180
GAGGGTCTGA	GGAACATAGA	GCTGGCCATG	TTGGGGCCAG	GTCTCAAGCA	GGAAGTGAGG	240
AATGGGACAG	GCTTGAGGAT	ACTCTACTCA	GTAGCCAGGA	TAGCAAGGAG	GGCTTGGGGT	300
TGCTATCCTG	GGGTTCAACC	CCCCAGGTTG	AAGGCCCTGG	GGGAGATGGT	CCCAGGACAT	360
ATTACAATGG	ACACAGGAGG	TTGGGACACC	TGGAGTCACC	AAACAAAACC	ATGCCAAGAG	420
AGACCATGAG	TAGGGGTGTC	CAGTCCAGCC	CTCTGACTGA	GCTGCATTGT	TCAAATCCAA	480
AGGGCCCCTG	CTGCCACCTA	GTGGCTGATG	GCATCCACAT	GACCTGGGGC	CACACGCGTT	540
TAGGGTCTCT	GTGAAGACCA	AGATCCTTGT	TACATTGAAC	GACTCCTAAA	TGAGCAGAGA	600
TTTCCACCTA	TTCGAAACAA	TCACATAAAA	TCCATCCTGG	AAAAAGCCTG	GGGGATGGCA	660
CTAAGGCTAG	GGATAGGGTG	GGATGAAGAT	TATAGTTACA	GTAAGGGGTT	TAGGGTTAGG	720
GATCAACGTT	GGTTAGGAGT	TAGGGATACA	GTAGGGTACC	GGTAGGGTTA	GGGGTTAGGG	780
TTAGGGGTTA	GGGTTAGGGT	TAGGGTTAGG	GTTAGGGTTA	GGGGTTAGGG	GTTAGGGTTA	840
GGGTTAGGTT	TTGGGGTGGC	GTATTTTGGT	CTTATACGCT	GTGTTCCACT	GGCAATGAAA	900
AGAGTTCTTG	TTTTTCCTTC	AGCAATTTGT	CATTTTTTAAA	AGAGTTTAGC	AATTCTAACA	960
GATATAGACC	AGCTGTGCTA	TCTCATTTGT	GTTTTTCAATT	GTAACCACAT	TGTGGTTTCA	1020
ATGTGTTTAC	TTGCCATCTG	TAGATCTTCT	TTGCGTGAGG	TGTCTGTTCA	GATGTGTGTG	1080
CATTTCTTGN	NTTTNGGCTG	TTTAACTTAT	TGTTTAGTTT	TAATAATTTT	TTATATATTT	1140
GAAGACAAAT	CTTTCTCAGA	TGTGTATTTG	CAAATATTTT	TTCAATATGA	GGCTTGCTTT	1200
TGTCTCTAAC	AAGGTCTCTT	CAGAGATAAC	TTAAATATAA	GAAATCCACA	CTGTCACCTC	1260
TTTTGTGTAT	ATCTACCTTT	TGTGTCATTT	GTTAAAATTC	ATTACCAAAC	CCAAAGGCAG	1320
ATAGCTTTTC	TTCTATTGTT	TCTTCTAGAA	ATTTGTATAG	TTTTGCATTT	TTAGTGTAAG	1380
GATGATTTTG	AGTGATTATT	TGTGTAAGTT	GTAAAGTTTT	CGTCTATATC	CATATCATTT	1440
CTTATGGTTT	CCAATTAATC	GTTCCCTCAC	TATTTTTTGGG	AAAGACACAG	GATAGTGGGC	1500
TTTGTTAGAG	TAGATAGGTA	GCTAGACATG	AACAGGAGGG	GGCCTCCTGG	AAAAGGGAAA	1560
GTCTGGGAAG	GCTCACCTGG	AGGACCACCA	AAAATTCACA	TATTAGTAGC	ATCTCTAGTG	1620
CTGGAGTGGA	TGGGCACTTG	TCAATTGTGG	GTAGGAGGGA	AAAGAGGTCC	TATGCAGAAA	1680
GAAACTCCCT	AGAATCCTC	TGAAGATGCC	CCAATCATTC	ACTCTGCAAT	AAAAATGTCA	1740
GAATATTGCT	AGCTACATGC	TGATAAGGNN	AAAGGGGACA	TTCTTAAGTG	AAACCTGGCA	1800
CCATAAGTAC	AGATTAGGGC	AGAGAAGGAC	ATTCAAAAGA	GGCAGGCGCA	GTAGGTACAA	1860
ACGTGATCGC	TGTCAGTGTG	CCTGGGATGG	CGGGAAGGAG	GCTGGTGCCA	GAGTGGATTTC	1920
GTATTGATCA	CCACACATAT	ACCTCAACCA	ACAGTGAGGA	GGTCCCACAA	GCCTAAGTGG	1980
GGCAAGTTGG	GGAGCTAAGG	CAGTAGCAGG	AAAACCAGAC	AAAGAAAACA	GGTGGAGACT	2040
TGAGACAGAG	GCAGGAATGT	GAAGAAATCC	AAAATAAAAT	TCCCTGCACA	GGACTCTTAG	2100
GCTGTTTAAAT	GCATCGCTCA	GTCCCCTCTC	TCCCTATTTT	TCTACAATAA	ACTCTTTTACA	2160
CTGTGTTTCT	TTTCAATGAA	GTTATCTGCC	ATCTTTGTAT	TGCCTCTTGG	TGAAAATGTT	2220
TCTTCCAAGT	TAAACAAGAA	CTGGGACATC	AGCTCTCCCC	AGTAATAGCT	CCGTTTTCAGT	2280

TTGAATTTAC	AGAACTGATG	GGCTTAATAA	CTGGCGCTCT	GACTTTAGTG	GTGCAGGAGG	2340
CCGTCACACC	GGGACCAAGA	GTGCCCTGCC	TAGTCCCCAT	CTGCCCCGAG	GTGGCGGCTG	2400
CCTCGACACT	GACAGCAATA	GGGTCCGGCA	GTGTCCCCAG	CTGCCAGCAG	GGGGCGTACG	2460
ACGACTACAC	TGTGAGCAAG	AGGGCCCTGC	AG			2492

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GGGGAATTCA	TTGGGATGTT	TCAGTTGA	28
------------	------------	----------	----

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CGAAAGTCCC	CCCTAGGAGA	TCTTAAGGA	29
------------	------------	-----------	----

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: RNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

CCGCTTAATA	CTCTGATGAG	TCCGTGAGGA	CGAAACGCTC	TCGCACC
------------	------------	------------	------------	---------

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 25 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:
 (ix) FEATURE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

CGATTAAAT TAATTAAGCC CGGGC

25

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 27 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:
 (ix) FEATURE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

TAAATTTAAT TAATTCGGGC CCGTCGA

27

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
 (D) OTHER INFORMATION IL-2 signal sequence
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

ATG TAC AGG ATG CAA CTC CTG TCT TGC ATT GCA CTA AGT CTT GCA CTT
 Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu

48

GTC ACA AAC AGT GCA CCT ACT
 Val Thr Asn Ser Ala Pro Thr

69

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 945 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(A) NAME/KEY: Coding Sequence

(B) LOCATION: 1...942

(D) OTHER INFORMATION: Renilla Reinformis Luciferase

(x) PUBLICATION INFORMATION:

PATENT NO.: 5,418,155

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

AGC	TTA	AAG	ATG	ACT	TCG	AAA	GTT	TAT	GAT	CCA	GAA	CAA	AGG	AAA	CGG	48
Ser	Leu	Lys	Met	Thr	Ser	Lys	Val	Tyr	Asp	Pro	Glu	Gln	Arg	Lys	Arg	
1				5					10					15		
ATG	ATA	ACT	GGT	CCG	CAG	TGG	TGG	GCC	AGA	TGT	AAA	CAA	ATG	AAT	GTT	96
Met	Ile	Thr	Gly	Pro	Gln	Trp	Trp	Ala	Arg	Cys	Lys	Gln	Met	Asn	Val	
			20					25					30			
CTT	GAT	TCA	TTT	ATT	AAT	TAT	TAT	GAT	TCA	GAA	AAA	CAT	GCA	GAA	AAT	144
Leu	Asp	Ser	Phe	Ile	Asn	Tyr	Tyr	Asp	Ser	Glu	Lys	His	Ala	Glu	Asn	
		35				40						45				
GCT	GTT	ATT	TTT	TTA	CAT	GGT	AAC	GCG	GCC	TCT	TCT	TAT	TTA	TGG	CGA	192
Ala	Val	Ile	Phe	Leu	His	Gly	Asn	Ala	Ala	Ser	Ser	Tyr	Leu	Trp	Arg	
		50				55					60					
CAT	GTT	GTG	CCA	CAT	ATT	GAG	CCA	GTA	GCG	CGG	TGT	ATT	ATA	CCA	GAT	240
His	Val	Val	Pro	His	Ile	Glu	Pro	Val	Ala	Arg	Cys	Ile	Ile	Pro	Asp	
65					70					75					80	
CTT	ATT	GGT	ATG	GGC	AAA	TCA	GGC	AAA	TCT	GGT	AAT	GGT	TCT	TAT	AGG	288
Leu	Ile	Gly	Met	Gly	Lys	Ser	Gly	Lys	Ser	Gly	Asn	Gly	Ser	Tyr	Arg	
				85					90					95		
TTA	CTT	GAT	CAT	TAC	AAA	TAT	CTT	ACT	GCA	TGG	TTG	AAC	TTC	TTA	ATT	336
Leu	Leu	Asp	His	Tyr	Lys	Tyr	Leu	Thr	Ala	Trp	Leu	Asn	Phe	Leu	Ile	
			100					105					110			
TAC	CAA	AGA	AGA	TCA	TTT	TTT	GTC	GGC	CAT	GAT	TGG	GGT	GCT	TGT	TTG	384
Tyr	Gln	Arg	Arg	Ser	Phe	Phe	Val	Gly	His	Asp	Trp	Gly	Ala	Cys	Leu	
		115					120					125				
GCA	TTT	CAT	TAT	AGC	TAT	GAG	CAT	CAA	GAT	AAG	ATC	AAA	GCA	ATA	GTT	432
Ala	Phe	His	Tyr	Ser	Tyr	Glu	His	Gln	Asp	Lys	Ile	Lys	Ala	Ile	Val	
		130				135					140					
CAC	GCT	GAA	AGT	GTA	GTA	GAT	GTG	ATT	GAA	TCA	TGG	GAT	GAA	TGG	CCT	480
His	Ala	Glu	Ser	Val	Val	Asp	Val	Ile	Glu	Ser	Trp	Asp	Glu	Trp	Pro	
145					150					155					160	
GAT	ATT	GAA	GAA	GAT	ATT	GCG	TTG	ATC	AAA	TCT	GAA	GAA	GGA	GAA	AAA	528
Asp	Ile	Glu	Glu	Asp	Ile	Ala	Leu	Ile	Lys	Ser	Glu	Glu	Gly	Glu	Lys	
				165					170				175			
ATG	GTT	TTG	GAG	AAT	AAC	TTC	TTC	GTG	GAA	ACC	ATG	TTG	CCA	TCA	AAA	576
Met	Val	Leu	Glu	Asn	Asn	Phe	Phe	Val	Glu	Thr	Met	Leu	Pro	Ser	Lys	
			180					185					190			
ATC	ATG	AGA	AAG	TTA	GAA	CCA	GAA	GAA	TTT	GCA	GCA	TAT	CTT	GAA	CCA	624

Ile	Met	Arg	Lys	Leu	Glu	Pro	Glu	Glu	Phe	Ala	Ala	Tyr	Leu	Glu	Pro		
		195					200					205					
TTC	AAA	GAG	AAA	GGT	GAA	GTT	CGT	CGT	CCA	ACA	TTA	TCA	TGG	CCT	CGT	672	
Phe	Lys	Glu	Lys	Gly	Glu	Val	Arg	Arg	Pro	Thr	Leu	Ser	Trp	Pro	Arg		
	210					215					220						
GAA	ATC	CCG	TTA	GTA	AAA	GGT	GGT	AAA	CCT	GAC	GTT	GTA	CAA	ATT	GTT	720	
Glu	Ile	Pro	Leu	Val	Lys	Gly	Gly	Lys	Pro	Asp	Val	Val	Gln	Ile	Val		
	225				230					235					240		
AGG	AAT	TAT	AAT	GCT	TAT	CTA	CGT	GCA	AGT	GAT	GAT	TTA	CCA	AAA	ATG	768	
Arg	Asn	Tyr	Asn	Ala	Tyr	Leu	Arg	Ala	Ser	Asp	Asp	Leu	Pro	Lys	Met		
			245						250					255			
TTT	ATT	GAA	TCG	GAT	CCA	GGA	TTC	TTT	TCC	AAT	GCT	ATT	GTT	GAA	GGC	816	
Phe	Ile	Glu	Ser	Asp	Pro	Gly	Phe	Phe	Ser	Asn	Ala	Ile	Val	Glu	Gly		
			260				265						270				
GCC	AAG	AAG	TTT	CCT	AAT	ACT	GAA	TTT	GTC	AAA	GTA	AAA	GGT	CTT	CAT	864	
Ala	Lys	Lys	Phe	Pro	Asn	Thr	Glu	Phe	Val	Lys	Val	Lys	Gly	Leu	His		
		275					280					285					
TTT	TCG	CAA	GAA	GAT	GCA	CCT	GAT	GAA	ATG	GGA	AAA	TAT	ATC	AAA	TCG	912	
Phe	Ser	Gln	Glu	Asp	Ala	Pro	Asp	Glu	Met	Gly	Lys	Tyr	Ile	Lys	Ser		
	290					295					300						
TTC	GTT	GAG	CGA	GTT	CTC	AAA	AAT	GAA	CAA	TAA						945	
Phe	Val	Glu	Arg	Val	Leu	Lys	Asn	Glu	Gln								
	305				310												

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

TTTGAATTC A TGTACAGGAT GCAACTCCTG

30

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

TTTGAATTCA GTAGGTGCAC TGTTTGTAC

30

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1434 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	AGAGCAGCGT	TGGGGGATAA	60
TGTCGACATT	TCCACTCCCA	ATGACGGTGA	TGTATAATGC	TCAAGTATTC	TCCTGCTTTT	120
TTACCACTAA	CTAGGAACTG	GGTTTGGCCT	TAATTCAGAC	AGCCTTGGCT	CTGTCTGGAC	180
AGGTCCAGAC	GACTGACACC	ATTAACACTT	TGTCAGCCTC	AGTGACTACA	GTCATAGATG	240
AACAGGCCCTC	AGCTAATGTC	AAGATACAGA	GAGGTCCTCAT	GCTGGTTAAT	CAACTCATAG	300
ATCTTGTTCCA	GATACAATA	GATGTATTAT	GACAAATAAC	TCAGCAGGGA	TGTGAACAAA	360
AGTTTCCGGG	ATTGTGTGTT	ATTTCCATTC	AGTATGTTAA	ATTTACTAGG	ACAGCTAATT	420
TGTCAAAAAG	TC'TTTTTCAG	TATATGTTAC	AGAATTGGAT	GGCTGAATTT	GAACAGATCC	480
TTCGGGAATT	GAGACTTCAG	GTCAACTCCA	CGCGCTTGGA	CCTGTCGCTG	ACCAAAGGAT	540
TACCCAATTG	GATCTCCTCA	GCATTTTCTT	TCTTTAAAAA	ATGGGTGGGA	TTAATATTAT	600
TTGGAGATAC	ACTTTGCTGT	GGATTAGTGT	TGCTTCTTTG	ATTGGTCTGT	AAGCTTAAGG	660
CCCAAACCTAG	GAGAGACAAG	GTGGTTATTG	CCCAGGCGCT	TGCAGGACTA	GAACATGGAG	720
CTTCCCCTGA	TATATGGTTA	TCTATGCTTA	GGCAATAGGT	CGCTGGCCAC	TCAGCTCTTA	780
TATCCACGCA	GGCTAGTCTC	ATTGTACGGG	ATAGAGTGAG	TGTGCTTCAG	CAGCCCGAGA	840
GAGTTGCAAG	GCTAAGCACT	GCAATGGAAA	GGCTCTGCGG	CATATATGTG	CCTATTCTAG	900
GGGGACATGT	CATCTTTCAT	GAAGGTTTCA	TGTCCTAGTT	CCCTTCCCCC	AGGCAAAACG	960
ACACGGGAGC	AGGTCAGGGT	TGCTCTGGGT	AAAAGCCTGT	GAGCCTGGGA	GCTAATCCTG	1020
TACATGGCTC	CTTTACCTAC	ACACTGGGGA	TTTGACCTCT	ATCTCCACTC	TCATTAATAT	1080
GGGTGGCCTA	TTTGCTCTTA	TTAAAAGGAA	AGGGGGAGAT	GTGGGGAGCC	GCGCCACAT	1140
TCGCCGTTAC	AAGATGGCGC	TGACAGCTGT	GTTCTAAGTG	GTAAACAAAT	AATCTGCGCA	1200
TGTGCCGAGG	GTGGTTCTTC	ACTCCATGTG	CTCTGCCTTC	CCCGTGACGT	CAACTCGGCC	1260
GATGGGCTGC	AGCCAATCAG	GGAGTGACAC	GTCCTAGGCG	AAGGAGAATT	CTCCTTAATA	1320
GGGACGGGGT	TTCGTTCTCT	CTCTCTCTCT	TGCTTCTCTC	TCTTGCTTTT	TCGCTCTCTT	1380
GCTTCCCGTA	AAGTGATAAT	GATTATCATC	TACATATCAC	AACGTGCGTG	GAGG	1434

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	AGAGCAGCGT	TGGGGGATAA	60
TGTCGACATT	TCCACTCCCA	ATGACGGTGA	TGTATAATGC	TCAAGTATTC	TCCTGCTTTT	120
TTACCACTAA	CTAGGAACTG	GGTTTGGCCT	TAATTCAGAC	AGCCTTGGCT	CTGTCTGGAC	180
AGGTCCAGAT	ACAACCTAGAT	GTATTATGAC	AAATAACTCA	GCAGGGATGT	GAACAAAAGT	240

TTCCGGGATT	GCGTGTATT	TCCATCCAGT	ATGTTAAATT	TACTAGGGCA	GCTAATTTGT	300
CAAAAAGTCT	TTTCCAGTAT	ATGTTACAGA	ATTGGATGGC	TGAATTTGAA	CAGATCCTTC	360
GGGAATTGAG	ACTTCAGGTC	AACTCCACGC	GCTTGGACCT	GTCCCTGACC	AAAGGATTAC	420
CCAATTGGAT	CTCCTCAGCA	TTTTCTTTCT	TTAAAAAATG	GGTGGGATTA	ATATTATTTG	480
GAGATACACT	TTGCTGTGGA	TTAGTGTTCG	TTCTTTGATT	GGTCTGTAAG	CTTAAGGCC	540
AAACTAGGAG	AGACAAGGTG	GTTATTGCCC	AGGCGCTTGC	AGGACTAGAA	CATGGAGCTT	600
CCCCTGATAT	ATCTATGCTT	AGGCAATAGG	TCGCTGGCCA	CTCAGCTCTT	ATATCCCATG	660
AGGCTAGTCT	CATTGCACGG	GATAGAGTGA	GTGTGCTTCA	GCAGCCCGAG	AGAGTTGCAC	720
GGCTAAGCAC	TGCAATGGAA	AGGCTCTGCG	GCATATATGA	GCCTATTCTA	GGGAGACATG	780
TCATCTTTCA	AGAAGGTTGA	GTGTCCAAGT	GTCTTTCCTC	CAGGCAAAAC	GACACGGGAG	840
CAGGTCAGGG	TTGCTCTGGG	TAAAAGCCTG	TGAGCCTAAG	AGCTAATCCT	GTACATGGCT	900
CCTTTACCTA	CACACTGGGG	ATTTGACCTC	TATCTCCACT	CTCATTAATA	TGGGTGGCCT	960
ATTTGCTCTT	ATTAAAAGGA	AAGGGGGAGA	TGTTGGGAGC	CGCGCCCA	TTCGCCGTTA	1020
CAAGATGGCG	CTGACAGCTG	TGTTCTAAGT	GGTAAACAAA	TAATCTGCGC	ATGCGCCGAG	1080
GGTGGTTCTT	CACTCCAIGT	GCTCTGCCTT	CCCCGTGACG	TCAACTCGGC	CGATGGGCTG	1140
CAGTCAATCA	GGGAGTGACA	CGTCTAGGC	GAAGGAAAAT	TCTCCTTAAT	AGGGACGGGG	1200
TTTCGTTTTT	TCTCTCTCTT	GCTTCGCTCT	CTCTTGCTTC	TTGCTCTCTT	TTCCTGAAGA	1260
TGTAAGAATA	AAGCTTTGCC	GCAGAAGATT	CTGGTCTGTG	GTGTTCTTCC	TGGCCGGTCG	1320
TGAGAACGCG	TCTAATAACA	ATTGGTGCCG	AAACCCGGGT	GATAATGATT	ATCATCTACA	1380
TATCACAACG	TGCGTGGAGG					1400

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1369 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	ACTTTACGGG	TCCTTTCCT	60
ACAAGTGCCA	CGAGGCCCCG	TGCTCTGGTA	ATAGATCTTT	GCTGAAAAGG	CACACACATG	120
ACACATTACT	CAAGGTGGGC	TCATCTGAGC	TGCAGATTCA	GCTTAATATG	AATCTTGCCA	180
ATTGTGTGAA	ATCATAAATC	TTCAAAGTGA	CACCTATTGC	CAGACACAGG	TGCCCCCTT	240
TGGCATAATA	AACAAACACA	AATTATCTAT	TATATAAAGG	GTGTTAGAAG	ATGCTTTAGA	300
ATACAAATAA	ATCATGGTAG	ATAACAGTAA	GTTGAGAGCT	TAAATTTAAT	AAAGTGATAT	360
ACCTAATAAA	AATTAAATTA	AGAAGGTGTG	AATATACTAC	AGTAGGTAAA	TTATTTTCATT	420
AATTTATTTT	CTTTCTTAAT	CCTTTATAAT	GTTTTCTGCT	ATTGTCAATT	GCACATCCAT	480
ATGTTCAATT	CTTCACTGTA	ATGAAGAAAT	GTAGTAAATA	TACTTTCCGA	ACAAGTTGTA	540
TCAAATATGT	TACACTTGAT	TCCGTGTGTT	ACTTATCATT	TTATTATTAT	ATTGATTGCA	600
TTCTTTCGTT	ACTTGATATT	ATTACAAGGT	ACATATTTAT	TCTCTCAGAT	CTTCATTATA	660
CTCTAACCAT	TTTATAACAT	ACTTTATTTA	TTCATTTCTT	ATGTGTGCTG	TGAGGCACAA	720
ATGCCAGAGA	GAACCTGAGC	AGATAAGAGG	ACAAATTGCA	AGAGTCAGTT	ACCTCCTGCT	780
GTTCTTGGA	AACTCAGGAT	CAAATTCAGG	TTGTCAGGCT	TGGCAGCATG	CACTTTTTAC	840
CAGTGCCCTC	ATCTTGCTAG	CCCTGAACAT	CAAGCTTTGC	AGACAGACAG	GCTACACTAA	900
GTGAACTGGT	CATTACAGC	ATGCATGGTG	ATTTATTGTT	ACTTTCCTAT	CCATGCCTTT	960
ACTATTTCTA	CTAGGTGCTA	GCTAGTACTG	TATTTTCGAGA	TAGAAGTTAC	TGAAAGAAAA	1020
TTACATTGTT	TTCTATAGAT	CCTTGATACT	CTTTCAGCAG	ATATAGAGTT	TTAATCAGGT	1080
CCTAGACCTT	TTCTTCACTC	TTATTAAATA	CTAAGTACAA	ATTAAGTTTA	TCCAAAACAG	1140
TACGGATGTT	GATTTTGTGC	AGTTCTACTA	TGATAATAGT	CTAGCTTCAT	AAATCTGACA	1200
CACTTATTGG	GAATGTTTTT	GTTAATAAAA	GATTCAGGTG	TTACTCTAGG	TCAAGAGAAT	1260
ATTAAACATC	AGTCCCAAAT	TACAACTTC	AATAAAAGAT	TTGACTCTCC	AGTGGTGGCA	1320
ATATAAAGTG	ATAATGATTA	TCATCTACAT	ATCACAACGT	GCGTGGAGG		1369

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22118 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GAATTC	CCCT	ATCCCT	AACTC	CAGATT	GGTG	GAATAA	CTTG	GTATAG	ATGT	TTGTGC	ATT	60
AAAACC	CTGT	AGGATC	TTCA	CTCTAG	GTCA	CTGTTC	CAGCA	CTGGA	ACCTG	AATTGT	TGGCC	120
CTGAGT	GATA	GGTCCT	GGGA	CATATG	CAGT	TCTGCA	CAGA	CAGAC	CAGACA	GACAG	CAGA	180
CAGAC	CAGACA	GACAG	ACGTT	ACAA	CAAA	AC	CGTT	GAGCC	GTGTGC	CAAC	ACAC	240
ACACCA	CTCT	GGCCATA	AATT	ATTGAG	GACG	TTGATT	TATT	ATTCTG	TGTT	TGTG	AGTCTG	300
TCTGTC	TGTC	TGTCTG	TCTG	TCTGTC	TGTC	TATCAA	ACCA	AAAGAA	ACCA	AACA	ATTATG	360
CCTGCC	TGCC	TGCC	TGCC	CCTACA	CAGA	GAAATG	ATTT	CTTCA	ATCA	TCTAAA	ACGA	420
CCTCCT	TAAGT	TTGCCT	TTTTT	TCTCTT	TCTT	TATCTT	TTTTT	TTTTTT	TCTTT	TCTTCT	TCCT	480
TCCTTC	CTTC	CTTC	CTTC	TCCTTC	CTTC	CTTCTT	CTTC	TTCTTT	CTTT	CTTACT	TTCT	540
TTCTTT	CTCT	CTTAC	ATT	TTCTTT	CTAT	ACATAG	TTTC	TTAGTG	TAAG	CATCC	CTGAC	600
TGCTTT	GAA	ACACTT	TGTA	GGCCT	CAAT	CTGTA	AAGAGC	CTTCCT	CTGC	TTTTCA	AATG	660
CTGGCA	TGAA	TGTTGT	TACCT	CACTAT	GACC	AGCTTA	GTCT	TCAAGT	CTGA	GTTACT	TGGAA	720
AGGAGT	TCCA	AGAAG	ACTGG	TTATAT	TTTTT	CATTTA	TATAT	TGCATT	TTTAA	TTAAAA	TTTTA	780
ATTTCA	CCAA	AAGA	ATTTAG	ACTG	ACCAAT	TCAGAG	TCTG	CCGTTT	AAAA	GCATA	AAGGAA	840
AAAGT	TAGGAG	AAAA	ACGTGA	GGCTGT	CTGT	GGATGG	TCCA	GGCTG	CTTTA	GGGAG	CCTCG	900
TCACCA	TTCT	GCAC	TTGCAA	ACCGG	GCCAC	TAGA	ACCCG	TGAAG	GGGAGA	AACCA	AAGCG	960
ACCTG	GAAAC	AATAG	GTCAC	ATGA	AGGCCA	GCCAC	CTCCA	TCTTG	TGTG	CGGG	AGTTCA	1020
GTTAG	CAGAC	AAGAT	GGCTG	CCATG	CACAT	GTTGT	CTTTC	AGCTT	GGTGA	GGTCA	AAGTA	1080
CAACCG	AGTC	ACAGA	ACAAG	GAAGT	TATACA	CAGTG	AGTTC	CAGGT	CAGCC	AGAGT	TTTACA	1140
CAGAGA	AACC	ACATC	TTGAA	AAAA	ACAAAA	AAATA	AAATTA	AAATA	AAATATA	ATTTA	AAAAAT	1200
TTAAAA	ATAG	CCGGG	AGTGA	TGGCG	CATGT	CTTTA	ATCCC	AGCTC	TCTTC	AGGC	CAGAGAT	1260
GGGAGG	ATTT	CTGAG	TTTGA	GGCC	AGCCTG	GTCTG	CAAAAG	TGAGT	TCCAG	GACAG	TCAAG	1320
GCTATA	CAGA	GAAAC	CTGT	CTTGAA	AACT	AAACT	AAAT	AAACT	AAACT	AAACT	AAAAA	1380
AATATA	AAAA	AAATTT	TTA	AAGA	ATTTTA	AAAA	ACTACA	GAAAT	CAAAAC	ATAAG	CCCAC	1440
GAGATG	GCAA	GTAAC	TGCAA	TCATAG	CAGA	AATATT	TATAC	ACAC	CACAC	ACAC	CAGACTC	1500
TGTCATA	AAAA	TCCA	ATGTGC	CTTC	CATGATG	ATCAA	ATTTTC	GATAG	TCAGT	AATA	CTAGAA	1560
GAATCA	TATG	TCTG	AAAA	TA	AAAGCC	CAGAA	CCTTT	TCTGC	TTTTG	TTTT	GCCCCA	1620
AGATAG	GGTT	TCTCT	CAGTG	TATCC	CTGGC	ATCC	CTGCCT	GGAAC	TTCC	TTGT	AGGTTT	1680
GGTAGC	CTCA	AACTC	CAGAGA	GGTCC	TCTCT	GCCTG	CCCTGC	CTGC	CTGCCT	GCTG	CTGC	1740
CTGCCT	GCCT	GCCT	CTCA	CTTCT	TCTGC	CACCC	CACACA	ACCG	AGTCGA	ACCT	AGGATC	1800
TTTATT	TCTT	TCTT	TCTC	TCTT	TCTTCT	TTCTT	TCTTCT	CTTCT	TTTCT	TTCTT	TCTT	1860
CTTTCT	TTTCT	TTCTT	ATTCA	ATTAG	TTTTT	AATGT	AAAGTG	TGTGT	TTTGTG	CTCT	ATCTGC	1920
TGCCTA	TAGG	CCTGT	TGCC	AGGAG	AGGGC	AACGA	AACCT	AGGAG	AAACC	ACCAT	GACG	1980
TCCTGA	GAAT	AAGT	GAAAA	ACA	ACAAAA	AAGGA	AAATTC	TAAT	CACATA	GAAT	GTAGAT	2040
ATATGC	CGAG	GCTGT	CAGAG	TGCT	TTTTTAA	GGCT	TAGTGT	AAGTA	ATGAA	AATTG	TGTGTG	2100
TGTCTT	TTAT	CCAA	ACACAG	AAGAG	AGGTG	GCTCG	GCCTG	CATGT	CTGTT	GTCTG	CATGT	2160
AGACC	AGGCT	GGCCT	TGAAC	ACAT	TAACT	GTCTG	CCCTCT	GCTT	CCCTAA	TGCTG	CGATT	2220
AAAGG	CATGT	GCCAC	CACTG	CCCG	ACTGA	TTTCT	TCTTT	TTTT	TTTTTTT	TGGAA	AAATAC	2280
CTTTCT	TTTCT	TCTCT	TCTC	CTCTT	TCTTC	CTTCT	TCTTC	TTCTT	TCTAT	TCTT	TTTTTTT	2340
TTTCTT	TTTTT	CTTTT	TTTTT	TTTTT	TTTTTAA	AATTT	TGCCTA	AGGT	TAAAGG	TGTG	TCCAC	2400
AATTGC	CCTCA	GCTCT	GCTCT	AATT	CTCTT	AAAA	AAAAAAC	AAAC	AAAAAA	AAAAC	CAAAA	2460
CAGTAT	GTAT	GTAT	GTATAT	TTAGA	AAGAAA	TACTA	ATCCA	TTAATA	AACTC	TTTTT	TCCTA	2520
AAATTC	CATGT	CATT	CTTGTT	CCACA	AAAGTG	AGTTC	CAGGA	CTTAC	CAGAG	AAACC	CTGTG	2580
TTCAA	ATTTTC	TGTGT	TCAAG	GTCAC	CTGG	CTTAC	AAAGT	GAGTT	CCAAG	TCCG	ATAGGG	2640
CTACAC	CAGAA	AAACC	CATATC	TCAGA	AAAAAA	AAAA	AGTTCC	AAAC	CACAC	ACAC	CACAC	2700
ACACAC	CACAC	ACAC	CACAC	ACAC	CACAC	ACAC	CACAC	CGCG	CCGCG	CGAT	GAGGGG	2760
AAGTC	GTGCC	TAA	ATAAAT	ATTTT	TCTGG	CCAA	AGTGAA	AGCA	AAATCAC	TATGA	AGAGG	2820
TACTC	CTAGA	AAAA	ATAAAT	ACAA	ACGGGC	TTTT	TAAATCA	TTCC	AGCACT	GTTT	TAAATTT	2880
AACTCT	GAAAT	TTAGT	CTTG	AAA	AGGGGGC	GGGT	TGTGGGT	GAGT	GAGGGC	GAGC	GAGCAG	2940
ACGGG	CGGGC	GGG	CGGGTGA	GTGG	CCGGC	GCGG	TGGCAG	CGAG	CACCAG	AAA	ACACAA	3000
ACCCCA	AGCG	GTAG	AGTGTT	TTAAA	AAATG	GAC	CTAAATG	TGGT	TGGAACG	GAGGT	CGCCG	3060
CCACCT	CTCT	CTTC	CACTGC	TTAG	ATGCTC	CCTT	CCCTT	ACTGT	GCTCC	CTT	CCCTTAA	3120
CTGTG	CCTAA	CTGTG	CCTGT	TCC	CTCACCC	CGCTG	ATTCG	CCAG	CACGT	ACTT	TGACTT	3180

CAAGAACGAT	TTTGCCTGTT	TTCACCGCTC	CCTGTCATAC	TTTCGTTTTT	GGGTGCCCCG	3240
GTCTAGCCCC	TTCGCTATGT	TCGGGCGGGA	CGATGGGGAC	CGTTTGTGCC	ACTCGGGAGA	3300
AGTGGTGGGT	GGGTACGCTG	CTCCGTCGTG	CGTGCGTGAG	TGCCGGAACC	TGAGCTCGGG	3360
AGACCTCCCG	GAGAGACAGA	ATGAGTGAGT	GAATGTGGCG	GCGCGTGACG	GATCTGTATT	3420
GGTTTGTATG	GTTGATCGAG	ACCATTTGTCG	GGCGACACCT	AGTGGTGACA	AGTTTCGGGA	3480
ACGCTCCAGG	CCTCTCAGGT	TGGTGACACA	GGAGAGGGAA	GTGCCTGTGG	TGAGGCGACC	3540
AGGGTGACAG	GAGGCCCGGC	AAGCAGGCCG	GAGCGTCTCG	GAGATGGTGT	CGTGTTTAAG	3600
GACGGTCTCT	AACAAGGAGG	TCGTACAGGG	AGATGGCCAA	AGCAGACCGA	GTTGCTGTAC	3660
GCCCTTTTGG	GAAAAATGCT	AGGGTTGGTG	GCAACGTTAC	TAGGTGACCC	AGAAGGCTTA	3720
AGTCCTACCC	CCCCCCCCCT	TTTTTTTTTT	TTTCTCCAG	AAGCCCTCTC	TTGTCCCCGT	3780
CACCGGGGGC	ACCGTACATC	TGAGGCCGAG	AGGACGCGAT	GGGCCCCGGT	TCCAAGCCGG	3840
TGTGGCTCGG	CCAGCTGGCG	CTTCGGGTCT	TTTTTTTTTT	TTTTTTTTTT	TTTTCCTCCA	3900
GAAGCCTTGT	CTGTGCTGT	CACCGGGGGC	GCTGTACTTC	TGAGGCCGAG	AGGACGCGAT	3960
GGGCCCCGGC	TTCCAAGCCG	GTGTGGCTCG	GCCAGCTGGA	GCTTCGGGTC	TTTTTTTTTT	4020
TTTTTTTTTT	TTTTTTTCTC	CAGAAGCCTT	GTCTGTCGCT	GTCACCGGGG	GCGCTGTACT	4080
TCTGAGGCCG	AGAGGACGCG	ATGGGTCGCG	TTCCAAGCCG	ATGTGGCGGG	GCCAGCTGGA	4140
GCTTCGGGTT	TTTTTTTTTT	CTCCAGAAGC	CCTCTCTTGT	CCCCGTCAAC	GGGGCGCGTG	4200
TACTTCTGAG	GCCGAGAGGA	CGTGATGGGC	CCGGTTCCA	GCGCGATGTC	GCCCGGTCAG	4260
CTGGAGCTTT	GGATCTTTTT	TTTTTTTTTT	CCTCCAGAAG	CCCTCTCTTG	TCCCCGTCAC	4320
CGGGGGCACC	TTACATCTGA	GGGCGAGAGG	ACGTGATGGG	TCCGGCTTCC	AAGCCGATGT	4380
GGCGGGGCCA	GCTGGAGCTT	CGGGTTTTTT	TTTTTTCCTC	CAGAAGCCCT	CTCTTGTCCC	4440
CGTCACCGGG	GGCGCTGTAC	TTCTGAGGCC	GAGAGGACGT	GATGGGGCCG	GGTTCAGGC	4500
GGATGTCGCC	CGGTCAAGCTG	CGGCTTTGGA	TCATTTTTTT	TTTTCCCTCC	AGAAGCCCTC	4560
TCTTGTCCCC	GTCACCGGGG	GCACCGTACA	TCTGAGGCCG	AGAGGACACG	ATGGGCTGT	4620
CTTCCAAGCC	GATGTGGCCC	GGCCAGCTGG	AGCTTCGGGT	CTTTTTTTTT	TTTTTTCCTC	4680
CAGAAGCCTT	GTCTGTGCT	GTCACCCGGG	GCGCTGTACT	TCTGAGGCCG	AGAGGACGCG	4740
ATGGGCCCCG	CTTCCAAGCC	GGTGTGGCTC	GGCCAGCTGG	AGCTTCGGGT	CTTTTTTTTT	4800
TTTTTTTTTT	TTCTCCAGA	AACCTTGTCT	GTCGCTGTCA	CCCGGGGCGC	TTGTACTTCT	4860
GATGCCGAGA	GGACGCGATG	GGCCCGTCTT	CCAGGCCGAT	GTGGCCCCGT	CAGCTGGAGC	4920
TTTGGATCTT	TTTTTTTTTT	TTTTCCCTCA	GAAGCCCTCT	CTTGTCCTCC	TCACCGGGGG	4980
CACCTTACAT	CTGAGGCCCTA	GAGGACACGA	TGGGCCCGGG	TTCCAGGCCG	ATGTGGCCCC	5040
GTCAGCTGCA	GCTTTGGATC	TTTTTTTTTT	GGAGCTTTGG	GAAGCCCTCT	TGTCCCCGTC	5100
ACCGGTGGCA	CTGTACATCT	GAGGCGGAGA	GGACATTATG	GGCCCGGCTT	CCAATCCGAT	5160
GTGGCCCCGT	CAGCTGGAGC	TTTGGATCTT	ATTTTTTTTT	TAATTTTTTC	TTCCAGAAGC	5220
CCTCTTGTCC	CTGTACCCGG	TGGCACGGTA	CATCTGAGGC	CGAGAGGACA	TTATGGGCCC	5280
GGCTTCCAGG	CCGATGTGGC	CGGTTCAGTC	TTCTTTTGGT	ATCTTTTTTT	TTTTTTTCT	5340
TTTTTCCTCC	AGAAGCCCTC	TCTGTCCCTG	TCACCGGGGG	CCCTGTACGT	CTGAGGCCGA	5400
GGGAAAGCTA	TGGGCGCGGT	TTTCTTTTCAT	TGACCTGTCTG	GTCTTATCAG	TTCTCCGGGT	5460
TGTGAGGGTC	GACCAAGTTGT	TCCTTTGAGG	TCCGGTTCTT	TTCTGTTATG	GGTCATTTTT	5520
GGGCCACCTC	CCCAGGTATG	ACTTCCAGGC	GTCGTGCTCT	GCCTGTCACT	TTCCCTCCCTG	5580
TCTCTTTTAT	GCTTGTGATC	TTTTCTATCT	TTTCTATTG	GACCTGGAGA	TAGGTACTGA	5640
CACGCTGTCC	TTTCCCTATT	AACACTAAAG	GACACTATAA	AGAGACCCTT	TCGATTTAAG	5700
GCTGTTTTGC	TTGTCCAGCC	TATTCTTTTT	ACTGGCTTGG	GTCTGTGCGG	GTGCCTGAAG	5760
CTGTCCCCGA	GCCACGCTTC	CTGCTTTCCC	GGGCTTGCTG	CTTGCGTGTG	CTTGCTGTGG	5820
GCAGCTTGTG	ACAACCTGGG	CTGTGACTG	TGCTGCGTGT	CAGACGTTTT	TCCCATTTC	5880
CCGAGGTTGT	CGTTGTACAC	CCTGTCCCGG	TTGGAATGGT	GGAGCCAGCT	GTGGTTGAGG	5940
GCCACCTTAT	TTCCGGCTCAC	TTTTTTTTTT	TTTTTTTCTC	TTGGAGTCCC	GAACCTCCGC	6000
TCTTTTCTCT	TCCCGGTCTT	TCTTCCACAT	GCCTCCCGAG	TGCATTTCTT	TTTGTTTTTT	6060
TTCTTTTTTT	TTTTTTTTTT	TTGGGGAGGT	GGAGAGTCCC	GAGTACTTCA	CTCCTGTCTG	6120
TGGTGTCCAA	GTGTTTCATG	CACGTGCCTC	CCGAGTGCAC	TTTTTTTTTG	GGCAGTCGCT	6180
CGTTGTGTTT	TCTTGTCTG	TGTCTGCCCG	TATCAGTAAC	TGTCTTGCCC	CGCGTGTAA	6240
ACATTCTAT	CTCGCTTGT	TCTCCCGATT	GCGCGTCGTT	GCTCACTCTT	AGATCGATGT	6300
GGTGCTCCGG	AGTTCTCTTC	GGGCCAGGGC	CAAGCCGCGC	CAGGCGAGGG	ACGGACATTC	6360
ATGGCGAATG	GCGGCCGCTC	TTCTCGTTCT	CCAGCGGGC	CCTCGTCTCT	CCACCCATC	6420
CGTCTGCCGG	TGGTGTGTGG	AAGGCAGGGG	TGCGGCTCTC	CGGCCCGACG	CTGCCCGCG	6480
CGCACTTTTC	TCAGTGTTTC	GCGTGGTCTT	TGTGGATGTG	TGAGGCGCCC	GGTTGTGCCC	6540
TCACGTGTTT	CACTTTGGTC	GTGTCTCGCT	TGACCATGTT	CCCAGAGTCG	GTGGATGTGG	6600
CCGGTGGCGT	TGCATACCTT	TCCCGTCTGG	TGTGTGCACG	CGCTGTTTCT	TGTAAGCGTC	6660
GAGGTGCTCC	TGGAGCGTTC	CAGGTTTGTG	TCTAGGTGTC	CTGCTTCTGA	GCTGGTGGTG	6720
GCGTCCCCA	TTCCCTGGTG	TGCCTCCGGT	GCTCCGTCTG	GCTGTGTGCC	TTCCCGTTTG	6780
TGTCTGAGAA	GCCCCGTGAG	GGGGGGTCGA	GGAGAGAAGG	AGGGGCAAGA	CCCCCTTCT	6840
TCGTGCGGTG	AGGCGCCCCAC	CCCGCGACTA	GTACGCCTGT	GCGTAGGGCT	GGTGCTGAGC	6900
GGTCGCGGCT	GGGGTTGGAA	AGTTTCTCGA	GAGACTCATT	GCTTTCCCGT	GGGGAGCTTT	6960
GAGAGGCTTG	GCTTTCGGGG	GGGACCGGTT	GGAGGTTCTC	CCCTGTCCCG	GGATGCTCAG	7020
AATGCCCTTG	GAAGAGAACC	TTCTGTGTC	CGCAGACCCC	CCCGCGCGGT	CGCCCGCGTG	7080

TTGGTCTTCT	GGTTTCCCTG	TGTGCTCGTC	GCATGCATCC	TCTCTCGGTG	GCCGGGGCTC	7140
GTCGGGGTTT	TGGGTCCGTC	CCGCCCTCAG	TGAGAAAGTT	TCCTTCTCTA	GCTATCTTCC	7200
GGAAAGGGTG	CGGGCTTCTT	ACGGTCTCGA	GGGGTCTCTC	CCGAATGGTC	CCCTGGAGGG	7260
CTCGCCCCCT	GACCGCCTCC	CGCGCGCGCA	GCCTTTGCTC	TCTCGTCTAC	CGCGGCCCGC	7320
GGCCTCCCCG	CTCCGAGTTC	GGGGAGGGAT	CACGCGGGGC	AGAGCCTGTC	TGTCGTCCTG	7380
CCGTTGCTGC	GGAGCATGTG	GCTCGGCTTG	TGTGTTGGT	GGCTGGGGAG	AGGGCTCCGT	7440
GCACACCCCC	GCGTGCGCGT	ACTTTCCTCC	CCTCCTGAGG	GCCGCCGTGC	GGACGGGGTG	7500
TGGGTAGGCG	ACGGTGGGCT	CCCGGGTCCC	CACCCGTCTT	CCCGTGCCTC	ACCCGTGCCT	7560
TCCGTGCGGT	GCGTCCCTCT	CGCTCGCGTC	CACGACTTTG	GCCGCTCCCG	CGACGGCGGC	7620
CTGCGCCGCG	CGTGGTGCCT	GCTGTGTGCT	TCTCGGGCTG	TGTGGTTGTG	TCGCCTCGCC	7680
CCCCCTTTC	CGCGGCAGCG	TTCCACCGGC	TGGCGAAATC	GCGGGAGTCC	TCCTTCCCCCT	7740
CCTCGGGGTC	GAGAGGGTCC	GTGTCTGGCG	TTGATTGATC	TCGCTCTCGG	GGACGGGACC	7800
GTTCTGTGGG	AGAACGGCTG	TTGGCCGCGT	CCGCGCGCAC	GTCGGACGTG	GGGACCCACT	7860
GCCGCTCCGG	GGTCTTCGTC	GGTAGGCATC	GGTGTGTCGG	CATCGGTCTC	TCTCTCGTGT	7920
CGGTGTCGCC	TCCTCGGGCT	CCCGGGGGGC	CGTCGTGTTT	CGGGTCCGCT	CGGCGCTGCA	7980
GGTGTGGTGG	GACTGCTCAG	GGGAGTGGTG	CAGTGTGATT	CCCGCCGGTT	TTGCCTCGCG	8040
TGCCCTGACC	GGTCCGACGC	CCGAGCGGTC	TCTCGGTCCC	TTGTGAGGAC	CCCCTTCCGG	8100
GAGGGGCCCC	TTTCGGCCGC	CCTTGCCGTC	GTCGCGCGCC	CTCGTTCTGC	TGTGTCTGTT	8160
CCCCCTCCCC	GCTCGCCGCA	GCCGGTCTTT	TTTCTCTCT	CCCCCCTCT	CCTCTGACTG	8220
ACCCGTGGCC	GTGCTGTGCG	ACCCCCCGCA	TGGGGGCGGC	CGGGCACGTA	CGCGTCCGGG	8280
CGGTACACCG	GGTCTTGGGG	GGGGGCCGAG	GGGTAAGAAA	GTCGGCTCGG	CGGGCGGGAG	8340
GAGCTGTGGT	TTGGAGGGCG	TCCCGGCCCC	CGCGCCGTGG	CGGTGTCTTG	CGCGGCTTTG	8400
GAGAGGGCTG	CTGCGAGGGG	GAAAAGGTTG	CGCCGCGAGG	GCAAAGGGAA	AGAGGCTAGC	8460
AGTGGTCATT	GTCCCGACGG	TGTGGTGGTC	TGTTGGCCGA	GGTGCGTCTG	GGGGGCTCGT	8520
CCGGCCCTGT	CGTCCGTCGG	GAAGGCGCGT	GTTGGGGCCT	GCCGGAGTGC	CGAGGTGGGT	8580
ACCCTGGCGG	TGGGATTAAC	CCCGCGCGCG	TGTCCCGGTG	TGGCGGTGGG	GGCTCCGGTC	8640
GATGTCTACC	TCCCTCTCCC	CGAGGTCTCA	GGCCTTCTCC	GCGCGGGCTC	TCGGCCCTCC	8700
CCTCGTTTCT	CCCTCTCGCG	GGGTTCAAGT	CGCTCGTCGA	CCTCCCCCTC	TCCGTCCTTC	8760
CATCTCTCGC	GCAATGGCGC	CGCCCCGAGT	CACGGTGGGT	TCGTCTCCG	CCTCCGCTTC	8820
TCGCCCCGGG	CTGGCCGCTG	TCCGGTCTCT	CCTGCCCGAC	CCCCGTGGC	GTGGTCTTCT	8880
CTCGCCGGTG	TCGCGGACTC	CTGGCTTCGC	CCGGAGGGTC	AGGGGGCTTC	CCGGTTCCCC	8940
GACGTTGCTC	CTCGCTGCTG	TGTGCTTGGG	GGGGGCCCGC	TGCGGCCCTC	CGCGCCCTCG	9000
GAGCCCCCTG	CGCACCCGCC	GGTGTGCGGT	TTCGCGCCGC	GGTCAGTTGG	GCCCTGGCGT	9060
TGTGTGCGGT	CGGGAGCGTG	TCCGCCCTCG	GGCGGCTAGA	CGCGGGTGTC	GCCGGGCTCC	9120
GACGGGTGGC	CTATCCAGGG	CTCGCCCCCG	CCGACCCCCG	CCTGCCCCGC	CCGGTGGTGG	9180
TCGTTGGTGT	GGGGAGTGAA	TGGTGCTACC	GGTCATTCCC	TCCCGCGTGG	TTTGACTGTC	9240
TGCGCCGGTG	CGCGCTTCTC	TTTCCGCCAA	CCCCACCGCC	AACCCACCAC	CCTGCTCTCC	9300
CGGCCCCGGT	CGGTCGACGT	TCCGGCTCTC	CCGATGCCGA	GGGGTTCGGG	ATTTGTGCCG	9360
GGGACGGAGG	GGAGAGCGGG	TAAGAGAGGT	GTCGGAGAGC	TGTCCCGGGG	CGACGCTCGG	9420
GTTGGCTTTG	CCGCGTGCCT	GTGCTCGCGG	ACGGGTTTTG	TCGGACCCCG	ACGGGGTTCG	9480
TCCGGCCGCA	TGCACCTCTC	CGGCGCCCGC	GAGCGCCCGC	CCGGTTCACC	CCCGGTTTGT	9540
CCTCCCGCGA	GGCTCTCCGC	CGCCGCCCGC	TCCTCTCTCT	CTCTCGCGCT	CTCTGTCCCC	9600
CCTGGTCCTG	TCCCACCCCC	GACGCTCCGC	TCGCGCTTCC	TTACCTGGTT	GATCCTGCCA	9660
GGTAGCATAT	GCTTGTCTCA	AAGATTAAGC	CATGCATGTC	TAAGTACGCA	CGGCCGGTAC	9720
AGTGAACATG	CGAATGGCTC	ATTAAATCAG	TTTGTTCTCC	TTTGTTCTCT	CGTCTCTCTC	9780
CTACTTGGAT	AACTGTGGTA	ATTCTAGAGC	TAATACATGC	CGACGGGCGC	TGACCCCCCT	9840
TCCCGGGGGG	GGATGCGTGC	ATTTATCAGA	TCAAACCAA	CCCGGTGAGC	TCCCTCCCGG	9900
CTCCGGCCCG	GGGTGCGGCG	CCGGCGGGCT	GGTGACTCTA	GATAACCTCG	GGCCGATCGC	9960
ACGCCCCCCC	TGGCGGCGAC	GACCCATTCC	AACGTCTGCC	CTATCAACTT	TCGATGGTAG	10020
TCGCCGTGCC	TACCATGGTG	ACCACGGGTG	ACGGGGAATC	AGGGTTCGAT	TCCGGAGAGG	10080
GAGCCTGAGA	AACGGCTACC	ACATCCAAGG	AAGGCAGCAG	GCGCGCAAAT	TACCCACTCC	10140
CGACCCGGGG	AGGTAGTGAC	GAAAAATAAC	AATACAGGAC	TCTTTCGAGG	CCCTGTAATT	10200
GGAATGAGTC	CACTTTAAAT	CCTTTAACGA	GGATCCATTG	GAGGGCAAGT	CTGGTGCCAG	10260
CAGCCGCGGT	AATTCCAGCT	CCAATAGCGT	ATATTAAAGT	TGCTGCAGTT	AAAAAGCTCG	10320
TAGTTGGATC	TTGGGAGCGG	CGCGGCGGTC	CGCCGCGAGG	CGAGTCACCG	CCCGTCCCCG	10380
CCCCTTGCTT	CTCGGCGCCC	CCTCGATGCT	CTTAGCTGAG	TGTCCCGCGG	GGCCCCGAAG	10440
GTTTACTTTG	AAAAAATTAG	AGTGTTCAAA	GCAGGCCCGA	GCCGCCTGGA	TACCGCAGAT	10500
AGGAATAATG	GAATAGGACC	GCGGTTCTAT	TTTGTGGTT	TTCGGAAC TG	AGGCCATGAT	10560
TAAGAGGGAC	GGCCGGGGGC	ATTCGTATTG	GCCCGCTAGA	GGTGAAATTTC	TTGGACCGGC	10620
GCAAGACGGA	CCAGAGCGAA	AGCATTGTC	AAGAATGTTT	TCATTAATCA	AGAACGAAAG	10680
TCGAGAGTTC	GAAGACGATC	AGATACCGTC	GTAGTTCCGA	CCATAAACGA	TGCCGACTGG	10740
CGATGCGGCG	GCGTTATTCC	CATGACCCGC	CGGGCAGCTT	CCGGGAAACC	AAAGTCTTTG	10800
GGTTCCGGGG	GGAGTATGGT	TGCAAAGCTG	AAACTTAAAG	GAATTGACGG	AAGGGCACCAC	10860
CCAGGATGGG	GCGTTCGGCT	TAATTTGACT	CAACACGGGA	AACCTCACCC	GGCCCGGACA	10920
CGGACAGGAT	TGACAGATTG	ATAGCTCTTT	CTCGATTCCG	TGGGTGGTGG	TGCATGGCCG	10980

TTCTTAGTTG	GTGGAGCGAT	TTGTCTGGTT	AATTCGATA	ACGAACGAGA	CTCTGGCATG	11040
CTAACTAGTT	ACGCGACCCC	CGAGCGGTCG	GCGTCCCCCA	ACTTCTTAGA	GGGACAAGTG	11100
GCGTTCAGCC	ACCCGAGATT	GAGCAATAAC	AGGTCTGTGA	TGCCCTTAGA	TGTCGGGGGC	11160
TGCACGCGCG	CTACACTGAC	TGGCTCAGCG	TGTGCCTACC	CTGCGCCGGC	AGGCGCGGGT	11220
AACCCGTTGA	ACCCCATTCG	TGATGGGGAT	CGGGGATTGC	AATTATTCCC	CATGAACGAG	11280
GAATTCCTAG	TAAGTGCGGG	TCATAAGCTT	GCGTTGATTA	AGTCCCTGCC	CTTTGTACAC	11340
ACCGCCCGTC	GCTACTACCG	ATTGGATGGT	TTAGTGAGGC	CCTCGGATCG	GCCCCGCCGG	11400
GGTCGGCCCC	CGGCCCTGGC	GGAGCGCTGA	GAAGACGGTC	GAACCTGACT	ATCTAGAGGA	11460
AGTAAAAGTC	GTAACAAGGT	TTCCGTAGGT	GAACCTGCGG	AAGGATCATT	AAACGGGAGA	11520
CTGTGGAGGA	GCGGCGGCGT	GGCCCGCTCT	CCCCGTCTTG	TGTGTGTCCT	CGCCGGGAGG	11580
CGCGTGCGTC	CCGGGTCCCG	TGCGCCGCGT	GTGGAGCGAG	GTGTCTGGAG	TGAGGTGAGA	11640
GAAGGGGTGG	GTGGGGTCCG	TCTGGGTCCG	TCTGGGACCG	CCTCCGATTT	CCCCCTCCCC	11700
TCCCCCTCCG	CTCCTCCGGC	TCTGACCTCG	CCACCTTACC	GCGGCGGCGG	CTGCTCGCGG	11760
GCGTCTTGCC	TCTTTCCCGT	CCGGCTCTTC	CGTGTCTACG	AGGGGCGGTA	CGTCGTTACG	11820
GGTTTTTTGAC	CCGTCCCGGG	GGCGTTCGGT	CGTCGGGGCG	CGCGCTTTGC	TCTCCCGGCA	11880
CCCATCCCCG	CCGCGGCTCT	GGCTTTTCTA	CGTTGGCTGG	GGCGGTTGTC	GCGTGTGGGG	11940
GGATGTGAGT	GTGCGGTGTG	GGCTCGCCCC	TCCCGATGCC	ACGCTTTTCT	GGCCTCGCGT	12000
GTCTCTCCCG	CTCCTGTCCC	GGGTACCTAG	CTGTGCGGTT	CCGGCGCGGA	GGTTTAAGGA	12060
CCCCGGGGGG	GTGCGCCCTG	CGCCCCCAGG	GTCGGGGGGC	GGTGGGGCCC	GTAGGGAAGT	12120
CGGTCTGTTG	GGCGGCTCTC	CCTCAGACTC	CATGACCTTC	CTCCCCCGCG	TGCCGCGGTT	12180
CCCGAGGCGG	CGGTCTGTGT	GGGGGGTGGG	TGCTTGAGAG	CCCCTCGGGG	GCCGTGGGGG	12240
CCCGACCCCG	GCCGCGGCTC	TGCCCCGATT	CCGCGGGTTC	GTCTGTGTCG	TGCGGCTCGT	12300
GGGTTCCCGT	GTGTTCCCGG	TGTTTTTCCG	TGCTCCGACC	TTTTTTTTTTC	CTCCCCCCCC	12360
CACGTGTCTC	GTTTCGTTCC	TGCTGGCCGG	CCTGAGGCTA	CCCCTCGGTC	CATCTGTTCT	12420
CCTCTCTCTC	CGGGGAGAGG	AGGGCGGTGG	TCGTTGGGGG	ACTGTGCCGT	CGTCAGCACC	12480
CGTGAGTTCC	CTCACACCCG	AAATACCGAT	ACGACTCTTA	GCGGTGGATC	ACTCGGCTCG	12540
TGCGTCGATG	AAGAACGCAG	CTAGCTGCGA	GAATTAATGT	GAATTGCAGG	ACACATTGAT	12600
CATCGACACT	TGGAACGCAC	TTGCGGCCCC	GGGTTCTCTC	CGGGGCTACG	CCTGTCTGAG	12660
CGTCGGTTGA	CGATCAATCG	CGTCACCCGC	TGCGGTGGGT	GCTGCGCGGC	TGGGAGTTTG	12720
CTCGCAGGGC	CAACCCCCCA	ACCCGGGTTC	GGCCCTCCGT	CTCCCGAAGT	TCAGACGTGT	12780
GGGCGGTTGT	CGGTGTGGCG	CGCGCGCCCC	CGTCGCGGAG	CCTGGTCTCC	CCCGCGCATC	12840
CGCGCTCGCG	GCTTCTTCCC	GCTCCGCCGT	TCCCGCCCTC	GCCCGTGCAC	CCCGCTGCTG	12900
GCCTCGCGTC	GGCGCCTCCC	GGACCGCTGC	CTCACCAGTC	TTTCTCGGTC	CCGTGCCCCG	12960
TGGGAACCCA	CCGCGCCCCC	GTGGCGCCCC	GGGGTGGGCG	CGTCCGCATC	TGCTCTGGTC	13020
GAGGTGTGGC	GTTGAGGGTG	TGCGTGCGCC	GAGGTGGTGG	TCGGTCCCCC	GCGGCCGCGG	13080
GGTTGTTCGG	GTGGCGGTTC	ACGAGGGCCG	GTGCGTTCGC	TGCGGTGGTT	GTCTGTGTGT	13140
GTTTGGGTCT	TGCGCTGGGG	GAGGCGGGGT	CGACCGCTCG	CGGGGTGGGC	GCGGTTCGCCC	13200
GGCGCCGCGC	ACCCTCCGGC	TTGTGTGGAG	GGAGAGCGAG	GGCGAGAACG	GAGAGAGGTG	13260
GTATCCCCGG	TGGCGTTGCG	AGGGAGGGTT	TGGCGTCCCG	CGTCCGTCCG	TCCCTCCCTC	13320
CCTCGGTGGG	CGCCTTCGCG	CCGCACGCGG	CCGCTAGGGG	CGGTTCGGGC	CCGTGGCCCC	13380
CGTGGCTCTT	CTTCGTCTCC	GCTTCTCTCT	CACCCGGGCG	GTACCCGCTC	CGCGCGCGGC	13440
CCGCGGGACG	CCGCGGCGTC	CGTGCGCCGA	TGCGAGTCAC	CCCCGGGTGT	TGCGAGTTCT	13500
GGGAGGGAGA	GGGCCTCGCT	GACCCGTTGC	GTCCCGGCTT	CCCTGGGGGG	GACCCGCGCT	13560
CTGTGGGCTG	TGCGTCCCGG	GGGTTCGCTG	TGAGTAAGAT	CCTCCACCCC	CGCCGCCCTC	13620
CCCTCCCGCC	GGCCTCTCGG	GGACCCCTCG	AGACGGTTTC	CCGGCTCGTC	CTCCCGTGCC	13680
GCCGGGTGCC	GTCTCTTTCC	CGCCCGCCTC	CTCGCTCTCT	TCTTCCCGCG	GCTGGGCGCG	13740
TGTCCCCCCT	TTCTGACCGC	GACCTCAGAT	CAGACGTGGC	GACCCGCTGA	ATTTAAGCAT	13800
ATTAGTCAGC	GGAGGAAAAG	AAACTAACCA	GGATTCCCTC	AGTAACGCGC	AGTGAACAGG	13860
GAAGAGCCCC	GCGCCGAATC	CCCGCCGCGC	GTGCGGCGGT	GGGAAATGTG	GCGTACGGAA	13920
GACCCACTCC	CCGGCGCCGC	TGCTGGGGGG	CCCAAGTCTT	TCTGATCGAG	GCCAGGCCCG	13980
TGGACGGTGT	GAGGCCGGTA	GCGGCCCGCG	CGCGCCGGGC	TCGGGTCTTC	CCGGAGTCGG	14040
GTTGCTTGGG	AATGCAGCCC	AAAGCGGGTG	GTAAACTCCA	TCTAAGGCTA	AATACCGGCA	14100
CGAGACCGAT	AGTCAACAAG	TACCGTAAGG	GAAAGTTGAA	AAGAACTTTG	AAGAGAGAGT	14160
TCAAGAGGGC	GTGAAACCGT	TAAGAGGTAA	ACGGGTGGGG	TCCGCGCAGT	CCGCCGGAGT	14220
GATTCAACCC	GTCGCGCGCG	GTCCGGCCGT	GCCCCTGGGT	CCCGGCGGAT	CTTTCCCGCT	14280
CCCCGTTTCT	CCCGACCCCT	CCACCCGCGC	GTCGTTCCCC	TCTTCTCTCC	CGCGTCCGGC	14340
GCCTCCGGCG	GCGGGCGCGG	GGGGTGGTGT	GGTGGTGGCG	CGCGGGCGGG	GCCGGGGGTG	14400
GGGTGCGCGG	GGGACCGCCC	CCGGCCGGGC	ACCGGCCGCC	GCCGGGCGCA	CTTCCACCGT	14460
GGCGGTGCGC	CGCGACCGCC	TCCGGGACCG	CCGGGAAGGC	CCGGTGGGGA	AGGTGGCTCG	14520
GGGGGGGCGG	CGCGTCTCAG	GGCGCGCCGA	ACCACCTCAC	CCCGAGTGTT	ACAGCCCTCC	14580
GGCCGCGCTT	TCGCCGAATC	CCGGGGCCGA	GGAAGCCAGA	TACCCGTGCG	CGCGCTCTCC	14640
CTCTCCCCCC	GTCCGCCTCC	CGGGCGGGCG	TGGGGGTGGG	GGCCGGGCGG	CCCCTCCCAC	14700
GGCGCGACCG	CTCTCCCACC	CCCCTCCGTC	CGCTCTCTCG	GGGCCCCGGT	GGGGGCGGGG	14760
CGGACTGTCC	CAGTGCGCC	CCGGCGCTCG	TGCGCCGCTC	GGGTCCCGGG	GGGACCGCTC	14820
GTCACGCGTC	TCCCGACGAA	GCCGAGCGCA	CGGGGTGCGC	GGCGATGTCT	GCTACCCACC	14880

CGACCCGTCT TGAAACACGG ACCAAGGAGT CTAACGCGTG CGCGAGTCAG GGGCTCGTCC 14940
GAAAGCCGCC GTGGCGCAAT GAAGGTGAAG GGCCCCGCC GGGGGCCCGA GGTGGGATCC 15000
CGAGGCTCTT CCAGTCCGCC GAGGGCGCAC CACCGGCCCG TCTCGCCCGC CGCGCCGGGG 15060
AGGTGGAGCA CGAGCGTACG CGTTAGGACC CGAAAGATGG TGAACATATG TTGGGCAGGG 15120
CGAAGCCAGA GGAAACTCTG GTGGAGGTCC GTAGCGGTCC TGACGTGCAA ATCGGTTCGT 15180
CGACCTGGGT ATAGGGGCGA AAGACTAATC GAACCATCTA GTAGCTGGTT CCCTCCGAAG 15240
TTTCCCTCAG GATAGCTGGC GCTCTCGCTC CCGACGTACG CAGTTTTATC CGGTAAAGCG 15300
AATGATTAGA GGTCTTGGGG CCGAAACGAT CTCAACCTAT TCTCAAACCT TAAATGGGTA 15360
AGAAGCCCGG CTCGTGGCG TGGAGCCGGG CGTGGAATGC GAGTGCCTAG TGGGCCACTT 15420
TTGGTAAGCA GAACTGGCGC TCGGGATGA ACCGAACGCC GGGTTAAGGC GCCCGATGCC 15480
GACGCTCATC AGACCCAGAG AAAGGTGTTG GTTGATATAG ACAGCAGGAC GGTGGCCATG 15540
GAAGTCGGAA TCCGCTAAGG AGTGTGTAAC AACTCACCTG CCGAATCAAC TAGCCCTGAA 15600
AATGGATGGC GCTGGAGCGT CCGGCCATA CCGGCCGTG GCGCGAGTCG GAACGGAACG 15660
GGACGGGAGC GGCCGCGGGT GCGCGTCTCT CCGGGTCCGG GGTGCGTGGC GGGGGCCCGT 15720
CCCCCGCCTC CCCTCCGCGC GCCGGGTTCG CCCCCGCGGC GTCGGGCCCC GCGGAGCCTA 15780
CGCCGCGACG AGTAGGAGGG CCGCTGCGGT GAGCCTTGAA GCCTAGGGCG CGGGCCCGGG 15840
TGGAGCCGCG GCAGGTGCAG ATCTTGGTGG TAGTAGCAAA TATTCAAACG AGAAGTTTGA 15900
AGGCCGAAGT GGAGAAGGGT TCCATGTGAA CAGCATTTGA ACATGGGTCA GTCGGTCTCT 15960
AGAGATGGGC GAGTGCCGTT CCGAAGGGAC GGGCGATGGC CTCCGTTGCC CTCGGCCGAT 16020
CGAAAGGGAG TCGGTTTCAG ATCCCCGAAT CCGGAGTGGC GGAGATGGGC GCCGCGAGGC 16080
CAGTGGCGTA ACGCGACCGA TCCCGGAGAA GCCGGCGGGA GGCTCGGGG AGAGTTCTCT 16140
TTTCTTTGTG AAGGTCAGGG CCGCTTGAA TGGTTCTGCC CCGAGAGAGG GAGCCGTGCC 16200
TTGGAAAGCG TCGCGTTTCC GCGGCGTCC GGTGAGCTCT CGCTGGCCCT TGAAAATCCG 16260
GGGGAGAGGG TGTAATCTC GCGCCGGGCC GTACCATAT CCGCAGCAGG TCTCCAAGGT 16320
GAACAGCCTC TGGCATGTTG GAACAATGTA GGTAAAGGAA GTCGGCAAGC CGGATCCGTA 16380
ACTTCGGGAT AAGGATTGGC TCTAAGGGCT GGGTCGGTCG GGCTGGGGCG CGAAGCGGGG 16440
CTGGGCGCGC GCCGCGGCTG GACGAGGCGC CGCCGCCCTC TCCCACGTCC GGGGAGACCC 16500
CCCGTCTTTT CCGCCCGGGC CCGCCCTCCC CTCTTCCCCG CGGGGCCCCG TCGTCCCCCG 16560
CGTCGTGCGC ACCTCTCTTC CCCCCTCCTT CTTCCTCGTG GGGGCGGGGT CCGGGGTCTG 16620
CGCGCGGCGC GGGTCCGGG GCGGCGGGTC CAACCCCGCG GGGGTTCGGG AGCGGGAGGA 16680
ACCAGCGGTC CCCGTGGGG CCGGGGGGCC GGACACTCGG GGGGCGGGC GCGGCGGCGA 16740
CTCTGGAGCG GAGCCGGGCC CTTCCTGTTG ATCGCTCAG CTGCGGCGGG CGTCGCGGCC 16800
GCTCCCGGGG AGCCCGGCGG GTGCCGCGC GGTCCCCCTC CCCGCGGGGC CTCGCTCCAC 16860
CCCCCATCG CCTCTCCCGA GGTGCGTGGC GGGGCGGGC GGGCGTGTCC CGCGCGTGTG 16920
GGGGGAACCT CCGCGTCTGT GTTCCCCCGC CCGGTCCGCC CCCC GGCCG CCGT TTTTCCG 16980
CGCGGCGCCC CCGCTCGGC CGCGCCCTAG CCGCGACTT AGAAGTGGTG GAGACAGGG 17040
GAATCCGACT GTTTAATTAA AACAAAGCAT CGCGAAGGCC CGCGGCGGGT GTTGACGCGA 17100
TGTGATTTCT GCCCAGTGCT CTGAATGTCA AAGTGAAGAA ATTCAATGAA GCGCGGGTAA 17160
ACGGCGGGAG TAACTATGAC TCTCTTAAGG TAGCCAAATG CCTCGTCATC TAATTAGTGA 17220
CGCGCATGAA TGGATGAAC AGATTTCCAC TGTCCCTACC TACTATCCAG CGAAACCACA 17280
GCCAAGGGAA CGGGCTTGGC GGAATCAGCG GGGAAAGAA ACCCTGTTGA GCTTGACTCT 17340
AGTCTGGCAC GGTGAAGAGA CATGAGAGGT GTAGAATAAG TGGGAGGCCC CCGGCGCCCC 17400
GCCCCGTCTT CGCGTCCGGG TCGGGGACG CCGGCCTCGC GGGCCGCCCG TGAAATACCA 17460
CTACTCTCAT CGTTTTTTCA CTGACCCGGT GAGGCGGGGG GCGGAGCCCC GAGGGGCTCT 17520
CGCTTCTGGC GCCAAGCGTC CGTCCCGCGC GTGCGGCGG GCGCGACCCG CTCGGGGGAC 17580
AGTGCCAGGT GGGGAGTTTG ACTGGGGCGG TACACCTGTC AAACGCTAAC GCAGGTGTCC 17640
TAAGGCGAGC TCAGGGAGGA CAGAAACCTC CCGTGAGCA GAAGGGCAA AGCTCGCTTG 17700
ATCTTGATTT TCAGTACGAA TACAGACCGT GAAAGCGGGG CCTCACGATC CTCTGACCT 17760
TTTGGGTTTT AAGCAGGAG TGTCAGAAAA GTTACCACAG GGATAACTGG CTTGTGGCGG 17820
CCAAGCGTTC ATAGCGACGT CGCTTTTTGA TCCTTCGATG TCGGCTCTTC CTATCATTGT 17880
GAAGCAGAAT TCACCAAGCG TTGGATTGTT CACCCACTAA TAGGGAACGT GAGCTGGGTT 17940
TAGACCGTCG TGAGACAGGT TAGTTTTACC CTACTGATGA TGTGTTGTTG CCATGGTAAT 18000
CCTGCTCAGT ACGAGAGGAA CCGCAGGTTT AGACATTTGG TGTATGTGCT TGGCTGAGGA 18060
GCCAATGGGG CGAAGCTACC ATCTGTGGGA TTATAGTGA ACGCCTCTAA GTCAGAATCC 18120
GCCCCAGCGG AACGATACCG CAGCGCCGAA GGAGCCTCGG TTGGCCCCCG ATAGCCGGGT 18180
CCCCGTCCGT CCCGCTCGGC GGGGTCCCCG CGTCGCCCCG CGGCGGCGCG GGTCTCCCC 18240
CCGCCGGGCG TCGGGACCGG GGTCCGGTGC GGAGAGCCGT TCGTCTTGGG AAACGGGGTG 18300
CGGCCGAAAA GGGGGCCGCC CTCTCGCCCC TCACGTTGAA CGCACGTTCC TGTGGAACCT 18360
GGCGCTAAAC CATTCTAGA CGACCTGCTT TTAGCTGAG GTTTCGTACG GTTTCGTACG TAGCAGAGCA 18420
GCTCCCTCGC TCGATCTAT TGAAAGTCAG CCCTCGACAC AAGGGTTTGT CTCTGCGGGC 18480
TTTCCCGTCG CACGCCCGCT CGCTCGCACG CGACCGTGTC GCGGCCCGGG CGTCACGGGG 18540
GCGGTGCGCT CGGCCCCCGC GCGGTTGCCC GAACGACCGT GTGGTGGTTG GGGGGGGGAT 18600
CGTCTTCTCC TCCCTCTCCC GAGGACGGTT CGTTTTCTTT TCCCCTTCCG TCGCTCTCCT 18660
TGGGTGTGGG AGCCTCGTGC GCGCGCACCC GCGCCCTGCC GTCGCGTGCC GCGGCGGCGA 18720
CTTGCCCTCC GGCCTTGGCC AAGCCGAGG GCGGAGGAG GGGATCGGCG GCGGCGGCGA 18780

CCGCGGCGCG	GTGACGCACG	GTGGGATCCC	CATCCTCGGC	GCGTCCGTCG	GGGACGGCCG	18840
GTTGGAGGGG	CGGGAGGGGT	TTTTCCCGTG	AACGCCGCGT	TGGGCGCCAG	GCCTCTGGCG	18900
GCCGGGGGGG	CGCTCTCTCC	GCCCGAGCAT	CCCCACTCCC	GCCCCCTCCTC	TTCGCGCGCC	18960
GCGGCGGCGA	CGTGCGTACG	AGGGGAGGAT	GTCGCGGTGT	GGAGGCGGAG	AGGGTCCGGC	19020
GCGGCGCCTC	TTCCATTTTT	TCCCCCCCAA	CTTCGGAGGT	CGACCAGTAC	TCCGGGCGAC	19080
ACTTTGTTTT	TTTTTTTTTCC	CCCGATGCTG	GAGGTCGACC	AGATGTCCGA	AAGTGTCCCC	19140
CCCCCCCCCC	CCCCCGGGCG	CGGAGCGGCG	GGGCCACTCT	GGACTCTTTT	TTTTTTTTTT	19200
TTTTTTTTTT	TTAAATTCCT	GGAACCTTTA	GGTCGACCAG	TTGTCCGTCT	TTTACTCCTT	19260
CATATAGGTC	GACCAGTACT	CCGGGTGGTA	CTTTGTCTTT	TTCTGAAAAT	CCCAGAGGTC	19320
GACCAGATAT	CCGAAAGTCC	TCTCTTTCCC	TTTACTCTTC	CCCACAGCGA	TTCTCTTTTT	19380
TTTTTTTTTT	TTTGGTGTGC	CTCTTTTGA	CTTATATACA	TGTAAATAGT	GTGTACGTTT	19440
ATATACTTAT	AGGAGGAGGT	CGACCAGTAC	TCCGGGCGAC	ACTTTGTTTT	TTTTTTTTTT	19500
TCCACCGATG	ATGGAGGTCT	ACCAGATGTC	CGAAAGTGT	CCGTCCCCCC	CCTCCCCCCC	19560
CCGCGACGCG	GCGGGCTCAC	TCTGGACTCT	TTTTTTTTTT	TTTTTTTTTT	TTTAAATTTT	19620
TGGAACCTTA	AGGTCGACCA	GTTGTCCGTC	TTTCACTCAT	TCATATAGGT	CGACCGGTGG	19680
TACTTTGTCT	TTTTCTGAAA	ATCGCAGAGG	TCGACCAGAT	GTCAGAAAGT	CTGGTGGTCG	19740
ATAAATTATC	TGATCTAGAT	TTGTTTTTCT	GTPTTTCAGT	TTTGTGTTGT	TTTGTGTTGT	19800
TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	19860
TTTGTGTTGT	GTTGTGTTGT	GTTGTGTTGT	GTTGGGTTGG	GTTGGGTTGG	GTTGGGTTGG	19920
GTTGGGTTGG	GTTGGGTTGT	GTTGTGTTGT	TTTGTGTTGT	TTGGTGTGTT	TGGTTTTGTT	19980
TTGTTTGCTG	TTGTTTTGTC	TTTTGCGGGT	CGAACAGTTG	TCCCTAACCG	AGTTTTTTTG	20040
TACACAAACA	TGCACCTTTT	TTAAAATAAA	TTTTTAAAAA	AAATGCGAAA	ATCGACCAAT	20100
TATCCCTTTC	CTTCTCTCTC	TTTTTTAAAA	ATTTTCTTTG	TGTGTGTGTG	TGTGTGTGTG	20160
TGTGTGTGTG	TGCGTGTGTG	TGTGTGTGTG	CGTGCAGCGT	GCGCGCGCTC	GTTTTATAAA	20220
TACTTATAAT	AATAGGTGCG	CGGGTGGTGG	TAGCTTCCCG	GACTCCAGAG	GCAGAGGCAG	20280
GCAGACTTCT	GAGTTCGAGG	CCAGCCTGGT	CTACAGAGGA	ACCCTGTCTC	GAAAAATGAA	20340
AATAAATACA	TACATACATA	CATACATACA	TACATACATA	CATACATACA	TACATATGAG	20400
GTTGACCAGT	TGTCAATCCT	TTAGAATTTT	GTTTTTAATT	AATGTGATAG	AGAGATAGAT	20460
AATAGATAGA	TGGATAGAGT	GATACAAATA	TAGGTTTTTT	TTTCAGTAAA	TATGAGGTTG	20520
ATTAACCAC	TTTCCCTTTT	TAGGTTTTTT	TTTTTTTCCC	CTGTCCATGT	GGTTGCTGGG	20580
ATTTGAAC	AGGACCTGG	CAGGTCAACT	GGAAAACGTG	TTTTCTATAT	ATATAAATAG	20640
TGGTCTGTCT	GCTGTTTGT	TGTTTGCTTG	CTTGCTTGCT	TGCTTGCTTG	CTTGCTTGCT	20700
TGCTTTTTTT	TTTCTTCTGA	GACAGTATTT	CTCTGTGTAA	CCTGGTGCCC	TGAAACTCAC	20760
TCTGTAGACC	AGCCTGGCCT	CAATCGAACT	CAGAAATCCT	CCTGCCTCTT	GTCTACCTCC	20820
CAATTTTGG	GTAAAGGTGT	GCTACACCAC	TGCCTGGCAT	TATTATCATT	ATCATTATTA	20880
ATTTTATTAT	TAGACAGAAC	GAAATCAACT	AGTTGGTCCCT	GTTTCGTAA	TTTCAATTTG	20940
ATTAGTTGGA	CCAATTAGTT	GGCTGGTTTG	GGAGGTTTCT	TTTGTTTCCG	ATTTGGGTGT	21000
TTGTGGGGCT	GGGGATCAGG	TATCTCAACG	GAATGCATGA	AGGTTAAGGT	GAGATGGCTC	21060
GATTTTTGTA	AAGATTACTT	TTCTTAGTCT	GAGGAAAAAA	TAAAATAATA	TTGGGCTACG	21120
TTTCATTGCT	TCATTCTTCT	TTCTCTTTCT	TTCTTTCTTT	CTTTCAGATA	AGGAGGTCGG	21180
CCAGTTTCTC	TGCCTTCTG	GAAGATGTAG	GCATTGCATT	GGGAAAAGCA	TTGTTTGAGA	21240
GATGTGCTAG	TGAACCAGAG	AGTTTGGATG	TCAAGCCGTA	TAATGTTTAT	TACAATATAG	21300
AAAAGTTCTA	ACAAAGTGAT	CTTTAACTTT	TTTTTTTTTT	TTTCTCCTTC	TACTTCTACT	21360
TGTTCTCACT	CTGCCACCAA	CGCGCTTTGT	ACATTGAATG	TGAGCTTTGT	TTTGCTTAAC	21420
AGACATATAT	TTTTTCTTTT	GCTTTTGCTT	GACATGGTTT	CCCTTCTAT	CCGTGCAGGG	21480
TTCCCAGACG	GCCTTTTGAG	AATAAAATGG	GAGGCCAGAA	CCAAAGTCTT	TTGAATAAAG	21540
CACCACAAC	CTAACCTGTT	TGGCTGTTTT	CCTTCCCAAG	GCACAGATCT	TTCCCAGCAT	21600
GGAAAAGCAT	GTAGCAGTTG	TAGGACACAC	TAGACGAGAG	CACCAGATCT	CATTGTGGGT	21660
GGTTGTGAAC	CACCCACCAT	GTGGTTGCCT	GGGATTTGAA	CTCAGGATCT	TCAGAAGACG	21720
AGTCAGGGCT	CTAAACCGAT	GAGCCATCTC	TCCCAGCCCT	CTACATTCCCT	TCTTAAGGCA	21780
TGAATGATCC	CAGCATGGGA	AGACAGTCTG	CCCTCTTTGT	GGTATATCAC	CATATACTCA	21840
ATAAAATAAT	GAAATGAATG	AAGTCTCCAC	GTATTTATTT	CTTCGAGCTA	TCTAAATTTCT	21900
CTCACAGCAC	CTCCCCCTCC	CCCACACTGC	CTTCTCTCCT	ATGTTTGGGT	GGGGCTGGGG	21960
GAGGGGTGGG	TGCGGGGCG	GGATCTGCAT	GTCTTCTTGC	AGGTCTGTGA	ACTATTTGCG	22020
ATGGCCTGGT	TCTCTGAAC	TTTGAGCCTT	GTCTATCCAG	AGGCTGACTG	GCTAGTTTTT	22080
TACCTGAAGT	CCCTGAGTGA	TGATTTCCCT	GTGAATTC			22118

(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 42999 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

GCTGACACGC	TGTCCTCTGG	CGACCTGTCTG	TCGGAGAGGT	TGGGCTCCG	GATGCGCGCG	60
GGGCTCTGGC	CTCACGGTGA	CCGGCTAGCC	GGCCGCGCTC	CTGCCTTGAG	CCGCCTGCCG	120
CGGCCCGCGG	GCTGCTGT	CTCTCGCGCG	TCCGAGCGTC	CCGACTCCCG	GTGCCGGCCC	180
GGGTCCGGGT	CTCTGACCCA	CCCGGGGGCG	GCGGGGAAGG	CGGCGAGGGC	CACCGTGCCC	240
CGTGCGCTCT	CCGTGCGGG	CGCCCGGGCG	GCCGCACAAC	CCCACCCGCT	GGCTCCGTGC	300
CGTGCGTGT	AGGCGTTCTC	GTCTCCGCGG	GGTTGTCCGC	CGCCCCCTTC	CCGGAGTGGG	360
GGGTGGCCGG	AGCCGATCGG	CTCGCTGGCC	GGCCGGCCTC	CGCTCCCGGG	GGGCTCTTCG	420
ATCGATGTGG	TGACGTCGTG	CTCTCCCGGG	CCGGGTCCGA	GCCGCGACGG	GCGAGGGGCG	480
GACGTTCTGT	GCGAACGGGA	CCGTCTTCT	CGCTCCGCCC	GCGCGGTCCC	CTCGTCTGCT	540
CCCTCTCCCG	CCCGCCGGCC	GGCGTGTGGG	AAGGCGTGGG	GTGCGGACCC	CGGCCCGACC	600
TCGCCGTCCC	GCCCGCCGCC	TTCGCTTCGC	GGGTGCGGGC	CGGCGGGGTC	CTCTGACGCG	660
GCAGACAGCC	CTGCCTGTCTG	CTTCCAGTGG	TTGTGCACTT	GCGGGCGGCC	CCCCTCCGCG	720
GCGGTGGGGG	TGCCGTCCCG	CCGGCCCGTC	GTGCTGCCCT	CTCGGGGGGG	GTTTGCAGCGA	780
GCGTCCGCTC	CGCTTGGGCC	CTTGGCGTGC	TCCTTGAGCG	CTCCGGGTTG	TCCCTCAGGT	840
GCCCGAGGCC	GAACGGTGGT	GTGTCTGTCC	CGCCCCCGGC	GCCCCCTCCT	CCGGTCGCCG	900
CCGCGGTGTC	CGCGCGTGGG	TCCTGAGGGA	GCTCGTCGGT	GTGGGGTTTCG	AGGCGGTTTG	960
AGTGAGACGA	GACGAGACGC	GCCCCTCCCA	CGCGGGGAAG	GCGCGCCCGC	TGCTCTCGGT	1020
GAGCGCACGT	CCCGTGCTCC	CCTCTGGCGG	GTGCGCGCGG	GCCGTGTGAG	CGATCGCGGT	1080
GGGTTCCGGG	CGGTGTGACG	CGTGCGCCCG	CCGGCCCGCC	AGGGGCTGCC	GTTCTGCCTC	1140
CGACCGGTCTG	TGTGTGGGTT	GACTTCGGAG	GCGCTCTGCC	TCGGAAGGAA	GGAGGTGGGT	1200
GGACGGGGGG	GCCTGTTGGG	GTTGCGCGCA	CGCGCGCACC	GGCCGGGCCC	CCGCCCTGAA	1260
CGCGAACGCT	CGAGGTGGCC	GCGCGCAGGT	GTTTCCTCGT	ACCGCAGGGC	CCCCTCCCTT	1320
CTCCAGGCGT	CCCTCGGCGC	CTCTGCGGGC	CCGAGGAGGA	GCGGCTGGCG	GGTGGGGGGA	1380
GTGTGACCCA	CCCTCGGTGA	GAAAAGCCTT	CTCTAGCGAT	CTGAGAGGCG	TGCCTTGGGG	1440
GTACCGGATC	CCCCGGGCCG	CCGCCTCTGT	CTCTGCCTCC	GTTATGGTAG	CGCTGCCGTA	1500
GCGACCCGCT	CGCAGAGGAC	CCTCCTCCGC	TTCCCCCTCG	ACGGGGTTGG	GGGGGAGAAG	1560
CGAGGGTTCC	GCCGGCCACC	GCGGTGGTGG	CCGAGTGCGG	CTCGTCGCCT	ACTGTGGCCC	1620
GCGCTCTCCC	CTTCCGAGTC	GGGGAGGAT	CCGCGCCGGC	CGGGCCCGGC	GCTCCACACC	1680
AGCGGGTTGG	GACGCGGCGG	CCGGCGGGCG	GTGGGTGTGC	GCGCCCGGCG	CTCTGTCCGG	1740
CGCGTGACCC	CCTCCGTCCG	CGAGTCGGCT	CTCCGCCCGC	TCCCGTGCCG	AGTCGTGACC	1800
GGTGCCGACG	ACCGCGTTTG	CGTGGCACGG	GGTCGGGCCC	GCCTGGCCCT	GGGAAAGCGT	1860
CCCACGGTGG	GGGCGCGCCG	GTCTCCCGGA	GCGGGACCGG	GTCGGAGGAT	GGACGAGAAT	1920
CACGAGCGAC	GGTGGTGGTG	GGTGTCGGTG	TTCGTGCGTG	CGGTCCGCTC	GGGGCCCCCG	1980
GTGGCGGGGG	CCCGGGGCTC	GCGAGGCGGT	TCTCGGTGGG	GGCCGAGGGC	CGTCCGGCGT	2040
CCCAGGCGGG	GCGCCGCGGG	ACCGCCCTCG	TGTCTGTGGC	GGTGGGATCC	CGCGGCCGTC	2100
TTTTCTCTGT	GGCCCGGCCG	TGCTGAGGT	TTCTCCCCGA	GCCGCCGCCT	CTGCGGGCTC	2160
CCGGGTGCCC	TTGCCCTCGC	GTGCCCCGCG	CCTCGCCCGT	CTGTGCCCTC	TTCCCCGCCC	2220
GCCGCCCGCC	GATCCTCTTC	TTCCCCCGGA	GCGGCTCACC	GGCTTCACGT	CCGTTGGTGG	2280
CCCCGCCTGG	GACCGAACCC	GGCACCGCC	CGTGGGGCGC	CGCCGCCGGC	CACTGATCGG	2340
CCCGGCGTCC	GCGTCCCCCG	GCGCGCGCCT	TGGGGACCGG	GTCGGTGGCG	CGCCGCGTGG	2400
GGCCCGGTGG	GCTTCCCGGA	GGGTTCGGGG	GGTCGGCCTG	CGGCGCGTGC	GGGGGAGGAG	2460
ACGGTTCCGG	GGGACCGGCC	GCGGCTGCGG	CGGCGGCGGT	GGTGGGGGGA	GCCGCGGGGA	2520
TCGCCGAGGG	CCGGTCCGGC	GCCCCGGGTG	CCCCGCGGTG	CCGCCGGCGG	CGGTGAGGCC	2580
CCGCGCGTGT	GTCCCGGCTG	CGGTCCGGCC	CGCTCGAGGG	GTCCCCGTGG	CGTCCCCCTT	2640
CCCGCCGGCC	GCCTTCTCTG	CGCCTTCCCC	GTCGCCCCCG	CCTCGCCCGT	GGTCTCTCTG	2700
CTTCTCTCCG	CCCGCTCTTC	CGAACCGGGT	CGCGCGCTCC	CCCGGGTGCG	CCTCGCTTCC	2760
CGGGCCTGCC	GCGGCCCTTC	CCCGAGGCGT	CGTCCCGGG	CGTCGGCGTC	GGGGAGAGCC	2820
CGTCTCTCCC	GCGTGGCGTC	GCCCCGTTTC	GCGCGCGCGT	GCGCCCCGAG	GCGGCCCGGT	2880
GGTCCCTCCC	GGACAGGCGT	TGCTGCGACG	TGTGGCGTGG	GTCGACCTCC	GCCTTGCCCG	2940
TCGCTCGCCC	TCTCCCCGGG	TCGGGGGGTG	GGGCCCCGGC	CGGGGCCCTC	GCCCCGGTGC	3000
CTGCCTCCCG	TCCCGGGCGG	TCCCGGGCGC	GCCGCGCCGG	CTCGGTTCGC	CTCCCTTGGC	3060
CGTCGTGTGG	CGTGTGCCAC	CCCTGCGCCG	GCGCCCGCCG	GCGGGGCTCG	GAGCCGGGCT	3120
TCGGCCGGGG	CCCGGGCCCT	CGACCGGACC	GGCTGCGCGG	GCGCTGCGGC	CGCACGGCGC	3180
GACTGTCCCC	GGGCCGGGCA	CCGCGGTCCG	CCTCTCGCTC	GCCGCCCGGA	CGTCGGGGCC	3240
GCCCCGCGGG	GCGGCGGGAG	CGCCGTCCCC	GCCTCGCCGC	CGCCCGCGGG	CGCCGGCCCG	3300
GCGCGCGCGC	CGGTGGCCCG	CGGTCCCTCC	GCGCGGGTCC	GCGCGGGTCC	GGCCGTCCCG	3360
CTCCTCGCGG	GCGGGCGCGA	CGAAGAAGCG	TCGCGGGTCT	GTGGCGCGGG	GCCCCCGGTG	3420

GTCGTGTCGC GTGGGGGGGCG GGTGGTTGGG GCGTCCGGTT CGCCGCGCCC CGCCCCGGCC 3480
 CCACCGGTCC CGGCCGCCGC CCCC CGCCCC GCTCGCTCCC TCCCGTCCGC CGGTCCGCGG 3540
 CCCGTCCGTC CGTCCGTCCG TCGTCTCTCT CGTTGCGGG GCGCCGGGCC CGTCCCTCGC 3600
 AGGCCCCCCG GCCCGCGCTC CGGCCGCGTC GGGGGCTCGC CGCGCTCTAC CTTACCTACC 3660
 TGGTTGATCC TGCCAGTAGC ATATGCTTGT CTCAAAGATT AAGCCATGCA TGTCTAAGTA 3720
 CGCACGGCCG GTACAGTGAA ACTGCGAATG GCTCATTAAA TCAGTTATGG TTCCTTTGGT 3780
 CGCTCGCTCC TCTCTACTTT GGATAACTGT GGTAATTCTA GAGCTAATAC ATGCCGACGG 3840
 GCGTGACCC CCTTCGCGGG GGGGATGCGT GCATTATCA GATCAAAACC AACCCGGTCA 3900
 GCCCCCTCC TCCCCGCGCC GGGGGGCGGG CGCCGGCGGC TTTGGTGACT CTAGATAACC 3960
 TCGGGCCGAT CGCACGCCCC CCGTGGCGGC GACGACCCAT TCGAACGTCT GCCCTATCAA 4020
 CTTTCGATGG TAGTCGCCGT GCCTACCATG GTGACCACGG GTGACGGGGA ATCAGGGTTC 4080
 GATTCCGGAG AGGGAGCCTG AGAAACGGCT ACCACATCCA AGGAAGGCAG CAGGCGCGCA 4140
 AATTACCCAC TCCCCAGCCG GGGAGGTAGT GACGAAAAAT TAGAGTGTTT AAAGCAGGCC GACTCTTTTCG 4200
 AGGCCCTGTA ATTGGAATGA GTCCACTTTA AATCCTTTAA CGAGGATCCA TTGGAGGGCA 4260
 AGTCTGGTGC CAGCAGCCGC GGTAATTCCA GCTCCAATAG CGTATATTAA AGTTGCTGCA 4320
 GTTAAAAAGC TCGTAGTTGG ATCTTGGGAG CGGGCGGGCG GTCCGCCGCG AGGCGAGCCA 4380
 CCGCCCCGTC CCGCCCCCTG CCTCTCGGCG CCCCCTCGAT GCTCTTAGCT GAGTGTCCCG 4440
 CGGGGCCCGA AGCGTTTACT TTGAAAAAAT TAGAGTGTTT AAAGCAGGCC CGAGCCGCCCT 4500
 GGATACCGCA GCTAGGAATA ATGGAATAGG ACCGCGGTTT TATTTTGTTC GTTTTCGGAA 4560
 CTGAGGCCAT GATTAAGAGG GACGCGCGGG GGCATTGCTA TTGCGCCGCT AGAGGTGAAA 4620
 TTCTTGGACC GGCGCAAGAC GGACCAGAGC GAAAGCATTT GCCAAGAATG TTTTCATTAA 4680
 TCAAGAACGA AAGTCGGAGG TTCGAAGACG ATCAGATACC GTCGTAGTTC CGACCATAAA 4740
 CGATGCCGAC CGCGGATGCG CGGCGTTTAT TCCCATGACC CGCCGGGCAG CTTCCGGGAA 4800
 ACCAAAGTCT TTGGGTTCCG GGGGGAGTAT GGTGCAAAAG CTGAAACTTA AAGGAATTGA 4860
 CGGAAGGGCA CCACCAGGAG TGGAGCCTGC GGCTTAATTT GACTCAACAC GGGAAACCTC 4920
 ACCCGGCCCG GACACGGACA GGATTGACAG ATTGATAGCT CTTTCTCGAT TCCGTGGGTG 4980
 GTGGTGCATG GCCGTTCTTA GTTGGTGGAG CGATTGTCTT GGTAAATTCC GATAACGAAC 5040
 GAGACTCTGG CATGCTAACT AGTTACGCGA CCCCCGAGCG GTCGGCGTCC CCAACTTCT 5100
 TAGAGGGACA AGTGGCGTTC AGCCACCCGA GATTGAGCAA TAACAGGTCT GTGATGCCCT 5160
 TAGATGTCCG GGGCTGCACG CGCGCTACAC TGACTGGCTC AGCGTGTGCC TACCCTACGC 5220
 CGGCAGGCGG GGGTAACCCG TTGAACCCCA TTCGTGATGG GGATCGGGGA TTGCAATTAT 5280
 TCCCCATGAA CGAGGGAATT CCGAGTAAAG TCCGGGTCTT AAGCTTGCGT TGATTAAGTC 5340
 CCTGCCCTTT GTACACACCG CCCGTCGCTA CTACCGATTG GATGGTTTAG TGAGGCCCTC 5400
 GGATCGGCCC CGCCGGGGTC GGCCACGGCG CCTGGCGGAG CGCTGAGAAG ACGGTGGAAC 5460
 TTGACTATCT AGAGGAAGTA AAAGTCGTAA CAAGGTTTCC GTAGGTGAAC CTGCGGAAGG 5520
 ATCATTAAAC GAGCCCGGAG GAGCCGCGCG GCGCGCGCGC CGCCCGCGCC CGCGCTTCC 5580
 TCCGCGACAC CCACCCCCC ACCGCGACGC GGCGCGTGCG CGGGCGGGGC CCGCGTGCCC 5640
 GTTCGTTCCG TCGTCTGTTT GTTCGCGGCC CGCCCCCGCC GCCGCGAGAG CCGAGAACTC 5700
 GGGAGGGAGA CGGGGGGGAG AGAGAGAGAG AGAGAGAGAG AGAGAGAGAG AGAGAGAGAA 5760
 AGAAGGGCGT GTCGTTGGTG TCGCGGTGTC GTGGGGCCGG CGGGCGGGCG GGAGCGGTCC 5820
 CCGGCCCGCG CCGTGCGGCG GGGGCGGCGG GCGGGCGGCG GCGCGGTTCT CGGCGCGCTC 5880
 GCGGCGGGTC TGGGGGGGTC TCGGTGCCCT CCTCCCCGCC GGGGCCCGTC GTCCGGCCCC 5940
 GCCGCGCCGG CTCCCCGTCT TCGGGGCCGG CCGGATTCCC GTCGCCTCCG CCGCGCCGCT 6000
 CGCGCCCGCC GGGCACGGCC CCGCTCGCTC TCCCCGGCCT TCCCGCTAGG GCGTCTCGAG 6060
 GGTCCGGGGC CCGTGGGGGC GGGAAACCCC CGCTCTCTCG TCCGCCCCC CGCGCTCCAG 6120
 GTACCTAGCG CGTTCGGCGC CGGAGGTTTA AAGACCCCTT GGGGGGATCG CCCGTCCGCC 6180
 CGTGGGTCCG GGGCGGTGGT GGGCCCGCGG GGGAGTCCCG TCGGGAGGGG CCGGCCCCCT 6240
 CCCGCGCCTC CACCGCGGAC TCCGCTCCCC GGCCGGGGCC GCGCCGCGCG CGCCGCGCGC 6300
 GCGGCCGTG GGTGGGGGCT TTACCCGGCG GCGTTCGCGC GCCTGCCGCG CGTGTGGCGT 6360
 GCGCCCCCGC CCGTGGGGGC GGGAAACCCC GGGCGCCTGT GGGGTGGTGT CCGCGCTCGC 6420
 CCGCGCGTGG GCGGCGCGCG CCTCCCCGTG GTGTGAAACC TTCCGACCCC TCTCCGAGT 6480
 CCGGTCCCGT TTGCTGTCTC GTCTGGCCGG CCTGAGGCAA CCCCCTCTCC TCTTGGGCGG 6540
 GGGGGGCGGG GGGACGTGCC GCGCCAGGAA GGGCTCCTC CCGGTGCGTC GTCGGGAGCG 6600
 CCCTCGCCAA ATCGACCTCG TACGACTCTT AGCGGTGGAT CACTCGGCTC GTGCGTCCAG 6660
 GAAGAACGCA GCTAGCTGCG AGAATTAATG TGAATTGCAG GACACATTGA TCATCGACAC 6720
 TTCGAACGCA CTTGCGGGCC CGGGTTCCCT CCGGGGCTAC GCCTGTCTGA GCGTCCGTTG 6780
 CCGATCAATC GCCCGGGGGG TGCTTCCGGG CTCTTCGGGG TGCGCGGCTG GGGGTTCCCT 6840
 CGCAGGGCCC GCGGGGGGGC CTCCTGCCCC CTAAGCGCAG ACCCGGCGGC GTCCGCCCTC 6900
 CTCTTGCCGC CCTTCCCCCT CCTTCCCCCT GCGTGGGAG GACGGGGAGG GCGGCGCCGC 7020
 GGGTGGCGGG GGGGAGAGGG GGGCGCGCCC GGCTGAGAGA GACGGGGAGG GCGGCGCCGC 7080
 CGCCGGAAGA CGGAGAGGGA AAGAGAGAGC CGGCTCGGGC CGAGTTCCCG TGGCCGCGCG 7140
 CTGCGGTCCG GGTTCCTCCC TCGGGGGGCT CCCTCGCGCC GCGCGCGGCT CCGGGTTCGG 7200
 GTTCTGTCG CCCC GGCGCGGT GGTGAAGGTC CCGTGCCCGT CGTCTGCTG GTCCGCGCTC 7260
 GTCGCGCGTG GGGTGGGTTT GCGTGCGGTG TGGTGTGGG GAGGAGGAA GCGGGTCCG 7320
 GAAGGGGAAG GGTGCCGGCG GGGAGAGAGG GTCGGGGGAG CGCGTCCCG TCGCCGCGGT

TCCGCCGCCC GCCCCCGGTG GCGGCCCGGC GTCCGCCCGA CCGGCCGCTC CCCGCGCCCC 7380
 TCCTCCTCCC CGCCCGCCCT CCTCCGAGGC CCCGCCCGTC CTCCTCGCCC TCCCCGCGCG 7440
 TACGCGCGCG CGCCCGCCCC CCCGGCTCGC CTCGCGCGCG GTCCGCCGGG GCCGGGAGCG 7500
 CGCCCCGCGG CCGCCCGGTG GCGCGCGCGC CGGGGTTTCG GTGTCCCCGG CGGCGACCCG 7560
 CGGGACGCGG CGGTGTCTGC CGCCGTCTCG CGCCCGCCTC CGGCTCGCGG CCGCGCCGCG 7620
 CCGCGCCGGG GCGCCGTCCC GAGCTTCCGC GTCGGGGCGG CGCGGCTCCG CCGCCGCGTC 7680
 CTCGGACCCG TCCCCCGGAC CTCGCGGGGG GAGACGCGCC GGGGCGTGCG GCGCCCGTCC 7740
 CGCCCCCGGC CCGTGCCCTT CCTTCCGGTC GTCCCGCTCC GCGGGGGCGG CGCGGGGGCG 7800
 CCGTCGGCGG CGCGCTCTCT CTCCCGTCGC CTCTCCCCCT CGCCGGGCCC GTCTCCCGAC 7860
 GGAGCGTCGG GCGGGCGGTG GGGCCGGCGC GATTCCGTCC GTCCGTCCGC CGAGCGGCCC 7920
 GTCCCCCTCC GAGACGCGAC CTCAGATCAG ACGTGGCGAC CCGCTGAATT TAAGCATATT 7980
 AGTCAGCGGA GGAAAAGAAA CTAACCAGGA TTCCCTCAGT AACGGCGAGT GAACAGGGAA 8040
 GAGCCAGCG CCGAATCCCC GCGCCGCGG GCGCGGGACA TGTGGCGTAC GGAAGACCCG 8100
 CTCCCCGCG CCGCTCGTGG GGGGCCCAAG TCCTTCTGAT CGAGGCCAG CCCGTGGACG 8160
 GTGTGAGGCC GGTAGCGGCC GCGCGCGCGC CGGGTCTTCC CGGAGTCGGG TTGCTTGGGA 8220
 ATGCAGCCCA AAGCGGGTGG TAAACTCCAT CTAAGGCTAA ATACCGGCAC GAGACCGATA 8280
 GTCAACAAGT ACCGTAAGGG AAAGTTGAAA AGAAGTTTGA AGAGAGAGTT CAAGAGGGCG 8340
 TGAAACCGTT AAGAGGTAAA CGGGTGGGGT CCGCGCAGTC CGCCCGGAGG ATTCAACCCG 8400
 GCGGCGGGTC CCGCCGTGTC GCGGCGCCCG CGGATCTTTC CCGCCCCCGG TTCCTCCCGA 8460
 CCCCTCCACC CGCCTCCCTT TCCCCCGCG CCCCTCCTCC TCCTCCCCCG AGGGGGCGGG 8520
 CTCCGCGCGG TCGGGGGGTG GCGGGGCGGG GCGGGGGGTG GGGTCGGCGG GGGACCGTCC 8580
 CCCGACCGGC GACCGGCCGC CGCCGGGCGC AATTTCCACG CGGCGGTGCG CCGCGACCCG 8640
 CTCCGGGACG GTCGGGAAGG CCGGCGGGGG AAGGTGGCTC GGGGGGCCCC GTCCGTCCGT 8700
 CCGTCTCTCT CCTCCCCCGT CTCCGCCCCC CGGCCCCCGG TCCTCCCTCG GGAGGGCGCG 8760
 CGGGTCGGGG CGGCGCGCGC GCGGCGGGTG GCGGCGGGCG CGGGGGCGGC GGGACCGAAA 8820
 CCCCCCGGA GTGTTACAGC CCCCCCGGCA GCAGACTCG CCGAATCCCG GGGCCGAGGG 8880
 AGCGAGACCC GTCTGGGAGG TCTCCCCCTT CCGGCGGCCG ACCCCGCGG GGAATCCCCC 8940
 GCGAGGGGGG TCTCCCCCGC GGGGGCGCGC CGGCGTCTCC TCGTGGGGGG GCGGGGCCAC 9000
 CCCTCCCACG GCGCGACCGC TCTCCACCC CTCTCCCCG CGCCCCCGCC CCGGCGACGG 9060
 GGGGGGTGCC GCGCGCGGGT CCGGGGGCGG GCGGCGACTG CCCCAGTGCG CCCCGGGCGG 9120
 GTCGCGCCGT CCGGCCCCGG GGAGGTTCTC TCGGGGCCAC GCGCGCGTCC CCGAAGAGG 9180
 GGGACGCGCG AGCGAGCGCA CGGGTCTCGG GCGGACTCG GCTACCCACC CGACCCGTCT 9240
 TGAAACACGG ACCAAGGAGT CTAACACGTG CCGGAGTCGG GGGCTCGCAC GAAAGCCGCC 9300
 GTGGCGCAAT GAAGGTGAAG GCCGCGCGCG TCGCCGCGCG AGGTGGGATC CCGAGGCCTC 9360
 TCCAGTCCGC CGAGGGCGCA CCACCGGCCC GTCTCGCCCC CCGCGCCGGG GAGGTGGAGC 9420
 ACGAGCGCAC GTGTTAGGAC CCGAAAGATG GTGAAGTATG CCTGGGCAGG GCGAAGCCAG 9480
 AGGAACTCT GGTGGAGGTC CGTAGCGGTC CTGACGTGCA AATCGGTCTG CCGACCTGGG 9540
 TATAGGGGCG AAAGACTAAT CGAACCATCT AGTAGCTGGT TCCCTCCGAA GTTTCCCTCA 9600
 GGATAGCTGG CGCTCTCGCA GACCCGACGC ACCCCCGCCA CGCAGTTTTA TCCGGTAAAG 9660
 CGAATGATTA GAGGTCTTGG GGCCGAAACG ATCTCAACCT ATTCTCAAAC TTAAAGTGGG 9720
 TAAGAAGCCC GGCTCGCTGG GGTGGAGCCG CGTGGGAAT GCGAGTGCCCT AGTGGGCCAC 9780
 TTTTGGTAAG CAGAACTGGC GCTGCGGGAT GAACCGAACG CCGGGTTAAG GCGCCCGATG 9840
 CCGACGCTCA TCAGACCCCA GAAAAGGTGT TGGTTGATAT AGACAGCAGG ACGGTGGCCA 9900
 TGGAAGTCGG AATCCGCTAA GGAGTGTGTA ACAACTCACC TGCCGAATCA ACTAGCCCTG 9960
 AAAATGGATG GCGCTGGAGC GTCGGGCCCA TACCCGGCCG TCGCCGGCAG TCGAGAGTGG 10020
 ACGGGAGCGG CCGGGGCGGC GCGCGCGCGC GCGCGTGTGG TGTGCGTCGG AGGGCGGCGG 10080
 CGGCGGCGGC GCGGGGGGTG TGGGGTCCCT CCCCCGCCCC CCCCCCACG CCTCCTCCCC 10140
 TCCTCCCGCC CACGCCCCGC TCCCCGCCCC CGGAGCCCCG CGGACGCTAC GCCGCGACGA 10200
 GTAGGAGGGC CGCTGCGGTG AGCCTTGAAG CCTAGGGCGC GGGCCCGGGT GGAGCCGCGG 10260
 CAGGTGCAGA TCTTGGTGGT AGTAGCAAAT ATTCAAACGA GAACTTTGAA GGCCGAAGTG 10320
 GAGAAGGGTT CCATGTGAAC AGCAGTTGAA CATGGGTGAG TCGGTCTCTGA GAGATGGGCG 10380
 AGCGCCGTTT CGAAGGGACG GGCGATGGCC TCCGTTGCCC TCGGCGGATC GAAAGGGAGT 10440
 CGGGTTTACA TCCCCGAATC CGGAGTGGCG GAGATGGGCG CCGCGAGGCG TCCAGTGCGG 10500
 TAACGCGACC GATCCCGGAG AAGCCGGCGG GAGCCCCGGG GAGAGTTCTC TTTCTTTGT 10560
 GAAGGGCAGG GCGCCCTGGA ATGGGTTCGC CCGGAGAGAG GGGCCCGTGC CTTGGAAAGC 10620
 GTCGCGGTTT CGGCGGCGTC CCGTGAGCTC TCGCTGGCCC TTGAAAATCC GGGGGAGAGG 10680
 GTGTAAATCT CGCGCCGGGC CGTACCCATA TCCGCAGCAG GTCTCCAAGG TGAACAGCCT 10740
 CTGGCATGTT GGAACAATGT AGGTAAGGGA AGTCGGCAAG CCGGATCCGT AACTTCGGGA 10800
 TAAGGATTGG CTCTAAGGGC TGGGTGCGTC GGGCTGGGCG GCGAAGCGGG GTTGGGCGG 10860
 CGCCGCGGCT GGACGAGGCG CGCGCCCCC CCACGCCCGG GGCACCCCCC TCGCGGCCCT 10920
 CCCCCGCCCC ACCCGCGCGC GCCGCTCGCT CCCTCCCCAC CCGCGCCCT CTCTCTCT 10980
 CTCTCCCCCG CTCCCCGTCC TCCCCCTCC CCGGGGGAGC GCGCGTGGG GCGCGCGCGG 11040
 GGGGAGAAGG GTCGGGGCGG CAGGGGCCCG GCGGCGGCCG CCGGGGCGGC CGCGGGGGCG 11100
 AGGTCCCCGC GAGGGGGGCC CGGGGGCCCG CGGCGGCGCG GCGGTCGCGG CCGCCCCCGG 11160
 GCGAGCCGGG CCCTTCCCGT GGATCGCCCC AGCTGCGGCG GCGGTCGCGG CCGCCCCCGG 11220

GGAGCCCGGC	GGCGGCGCGG	CGCGCCCCCC	ACCCCCACCC	CACGTCTCGG	TCGCGCGCGC	11280
GTCCGCTGGG	GGCGGGAGCG	GTCGGGCGGC	GGCGGTCTGG	GGGCGGCGGG	GCGGGGCGGT	11340
TCGTCCCCCC	GCCCTACCCC	CCCGGCCCCC	TCCGCCCCCC	GTTCCCCCCT	CCTCCTCGGC	11400
GCGCGGCGGC	GGCGGCGGCA	GGCGGCGGAG	GGGCGGCGGG	CCGGTCCCCC	CCGCCGGGTC	11460
CGCCCCCGGG	GCCGCGGTTT	CGCGCGCGCC	TCGCCTCGGC	CGGCGCCTAG	CAGCCGACTT	11520
AGAACTGGTG	CGGACCAGGG	GAATCCGACT	GTTTAATTAA	AACAAAGCAT	CGCGAAGGCC	11580
CGCGGCGGGT	GTTGACGCGA	TGTGATTTCT	GCCCAGTGCT	CTGAATGTCA	AAGTGAAGAA	11640
ATTCAATGAA	GCGCGGGTAA	ACGGCGGGAG	TAACATATGAC	TCTCTTAAGG	TAGCCAAATG	11700
CCTCGTCATC	TAATTAGTGA	CGCGCATGAA	TGGATGAACG	AGATTCCCAC	TGTCCCTACC	11760
TACTATCCAG	CGAAACCACA	GCCAAGGGAA	CGGGCTTGGC	GGAATCAGCG	GGGAAAGAAG	11820
ACCTGTGTGA	GCTTGACTCT	AGTCTGGCAC	GGTGAAGAGA	CATGAGAGGT	GTAAGAATAAG	11880
TGGGAGGCCC	CCGGCGCCCC	CCCGGTGTCC	CCCGAGAGGG	CCCGGGGCGG	GGTCCGCGGC	11940
CCTGCGGGTC	CCGGGTGAAA	TACCACTACT	CTGATCGTTT	TTTCACTGAC	CCGGTGAGGC	12000
GGGGGGGCGA	GCCCAGGGGG	CTCTCGCTTC	TGGCGCCAAG	CGCCCGCCCG	GCCGGGCGCG	12060
ACCCGCTCCG	GGGACAGTGC	CAGGTGGGGA	GTTTGACTGG	GGCGGTACAC	CTGTCAAACG	12120
GTAACGCAGG	TGTCTTAAGG	CGAGCTCAGG	GAGGACAGAA	ACCTCCCCTG	GAGCAGAAGG	12180
GCAAAAGCTC	GCTTGATCTT	GATTTTCAGT	ACGAATACAG	ACCGTGAAAG	CGGGGCCTCA	12240
CGATCCCTTC	GACCTTTTGG	GTTTTAAGCA	GGAGGTGTCA	GAAAAGTTAC	CACAGGGATA	12300
ACTGGCTTGT	GGCGGCCAAG	CGTTCATAGC	GACGTCGCTT	TTTGATCCTT	CGATGTCGGC	12360
TCTTCCTATC	ATTGTGAAGC	AGAATTCGCC	AAGCGTTGGA	TTGTTACACC	ACTAATAGGG	12420
AACGTGAGCT	GGGTTTAGAC	CGTCGTGAGA	CAGGTTAGTT	TTACCCTACT	GATGATGTGT	12480
TGTTGCCATG	GTAATCCTGC	TCAGTACGAG	AGGAACGCGA	GGTTCAGACA	TTTGGTGTAT	12540
GTGCTTGGCT	GAGGAGCCAA	TGGGGCGAAG	CTACCATCTG	TGGGATTATG	ACTGAACGCC	12600
TCTAAGTCAG	AATCCCGCCC	AGGCGAACGA	TACGGCAGCG	CCGCGGAGCC	TCGGTTGGCC	12660
TCGGATAGCC	GGTCCCCCGC	CTGTCCCCGC	CGGCGGGCCG	CCCCCCCCCTC	CACGCGCCCC	12720
GCCGCGGGAG	GGCGCGTGCC	CCGCCGCGCG	CCGGGACCGG	GGTCCGGTGC	GGAGTGCCCT	12780
TCGTCTTGGG	AAACGGGGCG	CGGCCGGAAA	GGCGGCCGCC	CCCTCGCCCC	TCACGCACCG	12840
CACGTTTCGT	GGGAACCTGG	CGCTAAACCA	TTCGTAGACG	ACCTGCTTCT	GGGTGCGGGT	12900
TTCGTACGTA	GCAGAGCAGC	TCCCTCGCTG	CGATCTATTG	AAAGTCAGCC	CTCGACACAA	12960
GGGTTTGTCC	GCGCGCGCGT	GCGTGCGGGG	GGCCCGGCGG	GCGTGCGCGT	TCGGGCGCCG	13020
CCGTCCCTTC	GTTCTGCTTC	CTCCCTCCCG	GCCTCTCCCG	CCGACCGCGG	CGTGGTGGTG	13080
GGGTGGGGGG	GAGGCGCGCG	GAGCCCGGTC	CCCGGCCCCG	CTTCTTCGGT	TCCCGCCTCC	13140
TCCCCGTTCA	CGCCGGGGCG	GCTCGTCCGC	TCCGGGCCGG	GACGGGGTCC	GGGGAGCGTG	13200
GTTTGGGAGC	CGCGGAGGCG	CCGCGCCGAG	CCGGGCCCCG	TGGCCCCGCC	GTCCCCGTCC	13260
CGGGGGTTGG	CCGCGCGGCG	CGGTGGGGGG	CCACCCGGGG	TCCCGGCCCT	CGCGCGTCCT	13320
TCCTCCTCGC	TCCTCCGCAC	GGTTCGACCG	ACGAACCGCG	GGTGGCGGGC	GGCGGCGGGC	13380
GAGCCCCACG	GGCGTCCCCG	CACCCGGCCG	ACCTCCGCTC	GCGACCTCTC	CTCGGTGCGG	13440
CCTCCGGGGT	CGACCGCCTG	CGCCCGCGGG	CGTGAGACTC	AGCGGCGTCT	CGCCGTGTCC	13500
CGGGTCGACC	GCGGCCTTCT	CCACCGAGCG	GCGGTGTAGG	AGTGCCCGTC	GGGACGAACC	13560
GCAACCGGAG	CGTCCCCGTC	TCGGTCGGCA	CCTCCGGGGT	CGACCAGCTG	CCGCCCCGGA	13620
GCTCCGGACT	TAGCCGGCGT	CTGCACGTGT	CCCGGGTCGA	CCAGCAGGCG	GCCGCGGAC	13680
GCAGCGGCGC	ACGCACGCGA	GGGCGTCGAT	TCCCTTTCGC	GCGCCCGCGC	CTCCACCGGC	13740
CTCGGCCCGC	GGTGGAGCTG	GGACCACGCG	GAACTCCCTC	TCCCACATTT	TTTTTCAGCC	13800
CACCGCGAGT	TTGCGTCCGC	GGGACCTTTA	AGAGGGAGTC	ACTGCTGCCG	TCAGCCAGTA	13860
CTGCCCTCCT	CTTTTTCGCT	TTTAGGTTTT	GTTTGCTTTT	TTTTTTTTTTT	TTTTTTTTTTT	13920
TTTTTCTTTT	CTTTCTTTCT	TTCTTTCTTT	CTTTCTTTCT	TTCTTTCTTT	CGCTTGTCTT	13980
CTTCTTGTGT	TCTCTTCTTG	CTCTTCTCTT	GTCTGTCTCT	CTCTCTCTCT	CTCTCTCTGT	14040
CTCTCGCTCT	CGCCCTCTCT	CTCTTCTCTC	TCTCTCTCTC	TCTCTCTCTG	TCTCTCGCTC	14100
TCGCCCCTCT	TCTCTCTCTT	CTCTCTGTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	14160
GTGCTCTCTG	CCCTCTCGCT	CTCTCTCTGT	CTCTGTCTGT	GTCTCTCTCT	CTCCCTCCCT	14220
CCCTCCCTCC	CTCCCTCCCT	CCCTCCCTTT	CCTTGGCGCC	TTCTCGGCTC	TTGAGACTTA	14280
GCCGCTGTCT	CGCCGTACCC	CGGGTCGACC	GGCGGGCCCT	CTCCACCGAG	CGGCGTGCCA	14340
CAGTGCCCGT	CGGGACGAGC	CGGACCCGCC	GCGTCCCCGT	CTCGGTGCGC	ACCTCCGGGG	14400
TCGACCAGCT	GCCGCCCCCG	AGCTCCGGAC	TTAGCCGGCG	TCTGCACGTG	TCCCGGGTCG	14460
ACCAGCAGGC	GGCCGCGCGA	CGCAGCGGCG	CACCGACGGA	GGGCGCTGAT	TCCCGTTTAC	14520
GCGCCCGCGC	CTCCACCGGC	CTCGGCCCGC	CGTGGAGCTG	GGACCACGCG	GAACTCCCTC	14580
TCCTACATTT	TTTTTCAGCCC	CACCGCGAGT	TTGCGTCCGC	GGGACCTTTA	AGAGGGAGTC	14640
ACTGCTGCCG	TCAGCCAGTA	CTGCCCTCCT	CTTTTTCGCT	TTTAGGTTTT	GCTTGCCTTT	14700
TTTTTTTCTT	TTTTTTTCTT	TTTTTTTCTT	CTTCTTTCTT	TTCTTTCTTT	CTTCTTTCTT	14760
TTCTTTCTTT	CTTTCGCTCT	CGCTCTCTCG	CTCTCTCCCT	CGCTCGTTTC	TTTCTTTCTC	14820
TTTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTGTCTCTC	GCTCTCGCCC	TCTCTCTCTC	14880
TTTCTCTCTC	TCTCTGTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	CCTCCCTCCC	14940
TCCCCCTCCC	TCCCTCTCTC	CCCTTCTCTG	GCGCTTCTCT	GGCTCTTGAG	ACTTAGCCCG	15000
TGCTCTCGCG	TGTCGCGGCT	GACCCGCGCG	CGCTTCTCCA	CCGAGCGGCG	TGCCACAGTG	15060
CCCGTCGGGA	CGAGCCGGAC	CCGCCGCGTC	CCCGTCTCGG	TCGGCACCTC	CGGGGTCGAC	15120

CAGCTGCCG CCGCGAGCTC CGGACTTAGC CGGCGTCTGC ACGTGTCCCG GGTCGACCAG 15180
 CAGGCGGCCG CCGGACGCTG CGGCGCACC GCGCGAGGGC GTCGATTCCG GTTCACGCGC 15240
 CCGCGACCTC CACCGGCCTC GGCCCGCGT GAGCTGGGA CCGCGCGGAA CTCCTCTCC 15300
 CACATTTTTT TCAGCCCCAC CGCGAGTTTG CGTCCGCGGG ACTTTTAAGA GGGAGTCACT 15360
 GCTGCCGTCA GCCAGTAATG CTTCTCTCTT TTTTGCTTTT TGGTTTTGCC TTGCGTTTTT 15420
 TTTCTTTCTT TCTTTCTTTC TTTCTTTCTT TCTTTCTTTC TCTCTCTCTC TCTCTCTCTC 15480
 TCTCTGTCTC TCTCTCTCTG TCTCTCTCCC CTCCCTCCCT CTTTGGTGCC TTCTCGGCTC 15540
 GCTGCTGCTG CTGCCCTCTG CTCCACGGTT CAAGCAAACA GCAAGTTTTC TATTTGAGT 15600
 AAAGACGTAA TTTACCATTT TTGGCCGGGC TGGTCTCGAA CTCCCGACCT AGTGATCCGC 15660
 CCGCCTCGGC CTCCCAAAGA CTGCTGGGAG TACAGATGTG AGCCACCATG CCCGGCCGAT 15720
 TCCTTCCTTT TTTCAATCTT ATTTTCTGAA CGCTGCCGTG TATGAACATA CATCTACACA 15780
 CACACACACA CACACACACA CACACACACA CACACACACA CACACACCCC GTAGTGATAA 15840
 AACTATGTAA ATGATATTTT CATAATTAAT ACCTTTATAT TATGTTACTT TTAATGGATG 15900
 AATATGTATC GAAGCCCCAT TTCATTTACA TACACGTGTA TGTATATCCT TCCTCCCTTC 15960
 CTTTATTCAT TATTTATTAA TAATTTTCGT TTATTTATTT TCTTTTCTTT TGGGGCCGGC 16020
 CCGCCTGGTC TTCTGTCTCT GCGCTCTGGT GACCTCAGCC TCCCAAATAG CTGGGACTAC 16080
 AGGGATCTCT TAAGCCCGGG AGGAGAGGTT AACGTGGGCT GTGATCGCAC ACTTCCACTC 16140
 CAGCTTACGT GGGCTGCGGT CCGGTGGGGT GGGGTGGGGT ACCCTGTTAT TTGCTCGTTT 16200
 CGATTGATTG CGATCTCAAT TGCCTTTTAG CTTTATTCAT ACCCTGTTAT TTGCTCGTTT 16260
 ATTCTCATGG GTTCTTCTGT GTCATTGTCA CGTTCATCGT TTGCTTGCCT GCTTGCCTGT 16320
 TTATTTCCCT CTTTCTCTCT TTTCTTCTCT CTTTCTTCC TTCTTCTCTT CCCTCCCTTA 16380
 CTGGCAGGCT CTTCTCTGT CTCTGCCGCC CTTGCTCACC CCAACCTCAA CGCTTTGGAC 16440
 CGACCAAAAG CTCGTTCTGC CTCTGATCCC TCCCATCCCC ATTACCTGAG ACTACAGGCG 16500
 CGCACCACCA CACCGGCTGA CTTTTATGTT GTTTCTCATG TTTTCCGTAG GTAGGTATGT 16560
 GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTATCT 16620
 ATGTATGTAC GTATGTATGT ATGTATGTGA GTGAGATGGG TTTTCGGGGT CTATCATGTT 16680
 GCCCACGCTG GTCTCGAACT CCTGTCTCCA AGCAATCCGC CTGCCTGCCT CGGCCGCCCA 16740
 CACTGCTGCT ATTACAGGCG TGAGACGCTG CGCCTGGCTC CTTCTACATT TGCTGCCTG 16800
 CCTGCCTGCC TGCCTGCCTA TCAATCGTCT TCTTTTTAGT ACGGATGTCG TCTCGCTTTA 16860
 TTGTCCATGC TCTGGGCACA CGTGGTCTCT TTTCAAACCT CTATGATTAT TATTATTGTA 16920
 GGCCTCATCT CACGTGTCTG GGTGATCTCG AACTTTTAGG CTCCAGAGAT CCTCCGCAT 16980
 CCGCCTCCCG GAGTGTCTGT ATGACACGCG TGGGCACGGT ACGCTCTGGT CGTGTTTGTC 17040
 GTGGGTGCGT TCTTTCCGTT TTTAATACGG GGACTGCGAA CGAAGAAAAT TTTACAGACG 17100
 ATCTCACC GA TCCGCCTTTT CGTTCTTTCT TTTTATTCTC TTTAGACGGA GTTTCACTCT 17160
 TTGCGCCAG GGTGGAGTAC GATGGCGGCT CTCGGCTCAC CGCACCTCC GCCTCCAGG 17220
 TTCAAGTGAT TCTCTGCCT GAGCTTCCC GAGTAGCTGG AATGACAGAG ATGAGCCATC 17280
 GTGCGCGGCT AATTTTTCTA TTTTATGAT AGATGGGGTT TCTCCATCTT GGTACGGCTG 17340
 GTCTTCAACT TCCGACCGTT GGAGAATCTT AACTTTCTTG GTGGTGGTTG TTTTCTTTT 17400
 TCTTTTTTTT TCTTTTCTTT TCTTTCTTCT TCCTCCCCC CCCACCCCC TTGTCGTCGT 17460
 CCTCTCTCTC CTCCTCTCTC TCTCTCTCT CTCTCTCTC CTTCTCTCT TCTTTCAATT 17520
 TTTTACGCT GGCTCTCCTA CTTGTGTTGC TCTGTGTTGC ACGCTGGTCT CAAACTCTG 17580
 GCCTTGACTC TTCTCCCGTC ACATCCGCCG TCTGGTTGTT GAAATGAGCA TCTCTCGTAA 17640
 AATGAAAAAG ATGAAAGAAA TAAACACGAA GACGGAAGC ACGGTGTGAA CGTTTCTCTT 17700
 CCGCTCTCCC GGGGTGTACC TTGGACCCGG AAACACGGAG GGAGCTTGGC TGAGTGGGTT 17760
 TTCGGTGCCG AAACCTCCCG AGGGCTCTCT TCCCTCTCCC CTTTGTCCCC GCTTCTCCG 17820
 CAGCCGAGGC TCCACCGCC GCCCCTGGCA TTTTCCATAG GAGAGGTATG GGAGAGGACT 17880
 GACACGCCTT CCAGATCTAT ATCCTGCCGG ACGTCTCTGG CTCGGCGTGC CCCACCGGCT 17940
 ACCTGCCACC TTCCAGGGAG CTCTGAGGCG GATGCGACCC CCACCCCCC GTCACGTCCC 18000
 GCTACCTCTC CCCGGCTGGC CTTTGCCGGG CGACCCAGG GGAACCGCGT TGATGCTGCT 18060
 TCGGATCCTC CGGCGAAGAC TTCCACCGGA TGCCCCGGGT GGGCCGTTG GGATCAGACT 18120
 GGACACCCC GGACCGTGCT GTTCTTGGGG GTGGGTTGAC GTACAGGGTG GACTGGCAGC 18180
 CCCAGCATTG TAAAGGGTGC GTGGGTATGG AAATGTCACC TAGGATGCCC TCCTTCCCTT 18240
 CCGTCTGCCT TCAGCTGCCT CAGGCGTGAA GACAACCTCC CATCGGAACC TCTTCTCTT 18300
 CCTTTCTCCA GCACACAGAT GAGACGACG AGAGGGAGAA ACAGCTCAAT AGATACCGCT 18360
 GACCTTCATT TGTGGAATCC TCAGTCATCG ACACACAAGA CAGGTGACTA GGCAGGGACA 18420
 CAGATCAAACT ACTATTTCCG GGTCTCTCTG GTGGGATTGG TCTCTCTCTC TCTCTCTCTC 18480
 TCTCTCTCTC TCTCTCTCTC TCTCGCACGC GCACGCGCGC ACACACACAC ACAATTTCCA 18540
 TATCTAGTTC ACAGAGACA CTCACTTCCC CTTTTCACAG TACGCAGGCT GAGTAAAACG 18600
 CGCCCCACCC TCCACCGGTT GGCTGACGAA ACCCTTCTC TACAATTGAT GAAAAAGATG 18660
 ATCTGGGCCG GGCACGCTAG CTCACGCCTG TCACTCCGGC ACTTTGGGAG GCCGAGGCGG 18720
 GTGGATCGCT TGGGGCCGGG AGTTTCGAGC CAGGCTGGCC GACGTGGCGA AACCCTGCT 18780
 CTCTGAAAAA TAGAACGATT AGCCGGGCCCT GGTGGCGTGG GCTTGGAAATC ACGACCGCTC 18840
 GGGAGACTGG GCGGGGCGAC TTGTTCCAAC CGGGGAGGCC GAGGCCGCGA TGAGCTGAGA 18900
 TCGTGCCGTG CGGATGCGGC CTGATGACG GAGCGAGACC CCGTCTCGAG AGAATCATGA 18960
 TGTTATTATA AGATGAGTTG TGCGCGGTGA TGGCCGCTG TAGTCGCGGC TACTCGGGAG 19020

GCTGAGACGA	GGAGAAGATC	ACTTGAGGCC	CCACAGGTCG	AGGCTTCGGT	CGGCCGTGAC	19080
CCACTGTATC	CTGGGCAGTC	ACCGGTCAAG	GAGATATGCC	CCTTCCCCGT	TTGCTTTTCT	19140
TTCTTTCCCT	TCTCTTTTCT	TCTTTTGTCT	TCTCTTTTCT	TTCTTTCTTT	CTTTCTTTCT	19200
TTCTTTCTTT	CTTTCTTTCT	TTTCTTTTCT	CTCTTTTCCC	CTCTTTCTTT	CCTGCCTTCC	19260
TGCCTTTTCT	CTTTTCTTCT	TTCTTCCCTT	CCTCCCTTCC	TTCTTTCTCT	CCGCCTCAGC	19320
CTCCCAAAGT	GCTGGGATGA	CTGGCGGGAG	GCACCATGCC	TGCTTGGCCC	AAAGAGACCC	19380
TCTTGGAAG	TGAGACGCAG	AGAGCGCCTT	CCAGTGATCT	CATTGACTGA	TTTAGAGACG	19440
GCATCTCGCT	CCGTACCCCC	GGCAGTGGTG	CCGTCTAAC	TCACTCCCTG	CAGCGTGGAC	19500
CGCTGCCACG	TCTGGCGATC	CTTCCACCTC	AGCCTCCAGA	GTACAGAGCC	TGGGACCGCG	19560
GGCACGCGCC	ACTGTGCCCC	CACCGTTTTT	AATTGTTTTT	TTTTCCCCCG	AGACAGAGTT	19620
TCACTCTCGT	GGCCTAGACT	GCAGTGCGGT	GGCGCGATCT	TGGCTCACCG	CAACCTCTGC	19680
CTCCCCGTTT	CAAGCGATTG	TCCTGCATCG	GCCTCCTGAG	TAGCCGGGAT	TGCGGGCATG	19740
CGCTGCCACG	TCTGGCTGAT	TTCTGATTTT	TAGTGGAGAC	GGGGCTTCTC	CATGTCGATC	19800
GGGCTGGTTT	CGAACTCCCG	ACCTCAGGTG	ATCCGCCCTC	CCCGGCCTCC	GGAAGTGCTG	19860
GGATGACAGG	CGTGAGCCAC	CGCGCCCGGC	CTTCATTTTT	AAATGTTTTT	CCACAGACGG	19920
GGTCTCATCA	TTTCTTTTGCA	ACCTCCTGTC	CCGGCGTCTC	AAAGTGCTGG	CGTGACGGGC	19980
GTGAGCCACT	CGCGCTGGAC	TCCGGGGAAT	GACTCACGAC	CACCATCGCT	CTACTGATCC	20040
TTTCTTTCTT	TCTTTCTTTC	TTTCTTTCTT	TCTTTCTTTC	TTTCTTTCTT	TCTTTCTTGA	20100
TGAATTATCT	TATGATTTAT	TTGTGTACTT	ATTTTCAGAC	GGAGTCTCGC	TCTGGGCGGG	20160
GCGAGGCGAG	GCGAGGCACA	GCGCATCGCT	TTGGAAGCCG	CGGCAACGCC	TTTCAAAGCC	20220
CCATTCTGAT	GCACAGAGCC	TTATTCCCTT	CCTGGAGTTG	GAGCTGATGC	CTTCCGTAGC	20280
CTTGGGCTTC	TCTCCATTCT	GAAGCTTGAC	AGGCGCAGGG	CCACCCAGAG	CTTGGCTGCG	20340
GCTGAGGATT	AGGGGGTGTG	TTGGGGCTGA	AAACTGGGTC	CCCTATTTTT	GATACCTCAG	20400
CCGACACATC	CCCCGACCGC	CATCGCTTGC	TCGCCCTCTG	AGATCCCCCG	CCTCCACCGC	20460
CTTGACAGGCT	CACCTCTTAC	TTTCAATTTCT	TCCTTTCTTG	CGTTTGAGGA	GGGGGTGCGG	20520
GAATGAGGGT	GTGTGTGGGG	AGGGGGTGCG	GGGTGGGGAC	GGAGGGGAGC	GTCTTAAGGG	20580
TCGATTTAGT	GTCAATGCCCT	TTTCACCACC	ACCACCACCA	CCGAAGATGA	CAGCAAGGAT	20640
CGGCTAAATA	CCGCGTGTTC	TCATCTAGAA	GTGGGAACTT	ACAGATGACA	GTTCTTGCAT	20700
GGGCAGAACG	AGGGGGACCG	GGGACGCGGA	AGTCTGCTTG	AGGGAGGAGG	GGTGAAGGA	20760
GAGACAGCTT	CAGGAAGAAA	ACAAAACACG	AATACTGTCT	GACACAGCAC	TGACTACCCG	20820
GGTGATGAAA	TCATCTGCAC	ACTGAACACC	CCCGTCACAA	GTTTACCTAT	GTCAACAATCT	20880
TGCATATGTA	TCGCTTGAAC	GACAAAATAA	AGTTAGGGGG	GAGAAGAGAG	GAGAGAGAGA	20940
GAGAGAGAGA	GACAGAGAGA	GACAGAGAGA	GAGAGAGAGG	AGGGAGAGAG	GAAAACGAAA	21000
CACCACCTCC	TTGACCTGAG	TCAGGGGGTT	TCTGGCCTTT	TGGGAGAACG	TTTCTAGGCT	21060
ATGCAGTATT	TGGGCCCCGT	CTTTTCTTTT	CTTCTTCTTT	TCTTTCTTTT	TTTTTGGACT	21120
GAGTCTCTCT	CGCTCTGTCA	CCCAGGCTGC	GGTCCGCGTG	GCGCTCTCTC	GGCTCACTGA	21180
AACCTCTGCT	TCCCCGGTTC	CAGTGATTCT	TCTTCCGCTG	CTGGGATTAC	AGGCGCACAC	21240
CATGACGGCG	GGCTCATATT	CCTATTTTCA	GTAGAGACGG	GGTTTCTCCA	CGTTGGCCAC	21300
GCTGGTCTCG	AACCTCTGAC	CTCAAATGAT	CCGCCTTCCCT	GGGCCTCCCA	AAGTGCTGGA	21360
AACGACAGCG	CTGAGCCGCG	GGGATTTTCA	CCTTTAAAG	CGCGGCCCTG	CCACCTTTCT	21420
CTGTGGCCCT	TACGCTCAGA	ATGACGTGTC	TCTCTGCGG	TAGGTTGACT	CCTTGAGTCC	21480
CCTAGGCCAT	TGCACGTGAG	CCTGGGCAGC	AAGAGCCAAA	CTCCGNNCCC	CCACCTCCTC	21540
GCGCACATAA	TAACCTAATA	ACAACTAATC	TAACCTAATA	AACTAATAAA	CTAATAAAAA	21600
TCTCTACACG	TCACCCATAA	GTGTGTGTTC	CCGTGAGAGT	GATTTCTAAG	AAATGGTACT	21660
GTACACTGAA	CGCAGTGGCT	CACGTCTGTC	ATCCCAGAGG	CAGGAGTTCC	AGACCAGCCC	21720
GGCCAACGTG	GTGAAACCCC	GTCTCTACTG	AAAATACGAA	ATGGAGTCAG	GCGCCGTGGG	21780
GCAGGCACCT	GTAACCCACG	CTACTCGGGA	GGCTGGGGTG	GAAGAATTGC	TTGAACCTGG	21840
CAGGCGGAGG	CTGCAGTGAC	CCAAGATCGC	ACCACTGCAC	TACAGCCTGG	GCGACAGAGT	21900
GAGACCCGGT	CTCCAGATAA	ATACGTACAT	AAATAAATAC	ACACATACAT	ACATACATAC	21960
ATACATACAT	ACATACATAC	ATCCATGCAT	ACAGATATAC	AAGAAAAGAAA	AAAAGAAAAG	22020
AAAAGAAAGA	GAAAATGAAA	GAAAAGGCAC	TGTATTGCTA	CTGGGCTAGG	GCCTTCTCTC	22080
TGTCTGTTTC	TCTCTGTTCG	TCTCTGTCTT	TCTCTGTGTG	TCTCTTCTCT	TGTCTGTCTG	22140
TCTCTTTCTT	TCTCTCTGTC	TCTGTCTCTG	TCTTTGTCTC	TCTCTCTCCC	TCTCTGCCTG	22200
TCTCACTGTG	TCTCTTCTCT	GTCTTACTCT	CTTTCTCTCC	CCGTCTGTCT	CTCTCTCTCT	22260
CTCTCCCTCC	CTGTTTGTTC	CTCTCTCTCC	CTCCTGTCTC	GTCTCTCTCT	CTCTCTTTCT	22320
GTCTGTTTCT	GTCTCTCTCT	GTCTGTCTAT	GTCTTTCTCT	GTCTGTCTCT	TTCTCTGTCT	22380
GTCTGCCTCT	CTCTTTCTTT	TTCTGTGTCT	CTCTGTCTGG	CTCTCTCTCT	CTGTCTGTCT	22440
TCTGTCTCTT	CTCTCTCTCT	CTCTGTGCTT	ATCTTCTGTC	TTACTCTCTT	TCTCTGCCTG	22500
TCTGTCTGTC	TCTCCCTCCC	TTTCTGTTTC	TCTCTCTCTC	TCTCTCTCTC	TCCCCCTCTC	22560
CCTGTCTGTT	TCTCTCCGTC	TCTCTCTCTT	TCTGTCTGTT	TCTCACTGTC	TCTCTCTGTC	22620
CATCTCTCTC	TCTCTCTGTC	TGTCTCTTTT	GTTCTCTCTG	TCTGTCTGTC	TCTCTCTCTC	22680
TCTCTCTCTC	TCTCTCTCTC	TCCCTGTCTG	TCTGTTTCTC	TCTATCTCTC	GCTGTCCATC	22740
TCTGTCTTTT	TATGTCTGTC	TCTTTCTGTC	TCAGTCTGTC	AGACACCCCC	GTGCCGGGTA	22800
GGGCCCTGCC	CCTTCCACGA	AAGTGAGAA	CGCTGCTTTC	GGTGCTTAGA	GAGGCCGAGA	22860
GGAATCTAGA	CAGGCGGGCC	TTGCTGGGCT	TCCCCACTCG	GTGTATGATT	TCGGGAGGTC	22920

GAGGCCGGGT	CCCCGCTTGG	ATGCGAGGGG	CATTTTCAGA	CTTTTCTCTC	GGTCACGTGT	22980
GGCGTCCGTA	CTTCTCCTAT	TFCCCCGATA	AGCTCCTCGA	CTTCAACATA	AACGGCGTCC	23040
TAAGGGTTCGA	TTTAGTGTCA	TGCTCTTTTC	ACCGCCACCA	CCGAAGATGA	AAGCAAAGAT	23100
CGGCTAAATA	CCGCGTGTTT	TCATCTAGAA	GTGGGAACTT	ACAGATGACA	GTTCTTGCAT	23160
GGGCAGAACG	AGGGGGACCG	GGNACGCGGA	AGCCTGCTTG	AGGGRGGAGG	GGYGAAGGA	23220
GAGACAGCTT	CAGGAAGAAA	ACAAAACACG	AATACTGTCT	GACACAGCAC	TGACTACCCG	23280
GGTGATGAAA	TCATCTGCAC	ACTGAACACC	CCCGTCACAA	GTTTACCTAT	GTCACAGTCT	23340
TGCTCATGTA	TGCTTGAACG	ACAAATAAAA	GTTCGGGGGG	GAGAAGAGAG	GAGAGAGAGA	23400
GAGAGACGGG	GAGAGAGGGG	GGAGAGGGGG	GGGGAGAGAG	AGAGAGAGAG	AGAGAGAGAG	23460
AGAGAGAGAG	AGAAAGAGAA	GTAAAACCAA	CCACCACCTC	CTTGACCTGA	GTCAGGGGGT	23520
TTCTGGCCTT	TTGGGAGAAC	GTTCAGCGAC	AATGCAGTAT	TTGGGCCCCG	TCTTTTTTTT	23580
TTCTTCTTCT	TTTCTTTTCT	TTTTTTTGGG	CTGAGTCTCT	CTCGCTCTGT	CACCCAGGCT	23640
GCGGTGCGGT	GCGCTCTCTT	CGGCTCACTG	AAACCTGCTG	TTCCCGGGTT	CCAGTGATTC	23700
TTCTTCGGTA	GCTGGGATTA	CAGGTGCGCA	CCATGACGGC	CGGCTCATCG	TTCTATTTTT	23760
AGTAGAGACG	GGGTTTCTCC	ACGTGCGCCA	CGCTGGTCTC	GAACCTCTGA	CCACAAATGA	23820
TCCACCTTCC	TGGGCCCTCC	AAAGTGCTGG	AAACGACAGG	CCTGAGCCGC	CGGGATTTCA	23880
GCCTTTAAAA	GCGCGCGGCC	CTGCCACCTT	TCGCTGCGGC	CCTTACGCTC	AGAATGACGT	23940
GTCTCTCTTG	CCATAGGTTG	ACTCCTTGAG	TCCCTTAGGC	CATTGCACTG	TAGCCTGGGC	24000
AGCAAGAGCC	AAACTCCGTC	CCCCCACCTC	CCCGCGCACA	TAATAACTAA	CTAACTAACT	24060
AACTAACTAA	AATCTCTACA	CGTCACCCAT	AAGTGTGTGT	TCCCGTGAGG	AGTGATTTCT	24120
AAGAAATGGT	ACTGTACACT	GAACGCAGGC	TTACCGTCTG	TCATCCCGAG	GTCAGGAGTT	24180
CGAGACCAGC	CCGGCCACAG	TGGTGAACCC	CCCGTCTCTA	CTGAAAATAC	GAAATGGAGT	24240
CAGGCGCCGT	GGGGCAGGCA	CCTGTAACCC	CAGCTACTCG	GGAGGCTGGG	GTGGAAGAAT	24300
TGCTTGAACC	TGGCAGGCGG	AGGCTGCAGT	GACCCAAGAT	CGCACCCTG	CACTACAGCC	24360
TGGGCGACAG	AGTGAGACCC	GGTCTCCAGA	TAAATACGTA	CATAAAATAA	TACACACATA	24420
CATACATACA	TACATAAAC	ATACATACAT	ACAGATATAC	AAGAAAGAAA	AAAAGAAAAG	24480
AAAAGAAAAGA	GAAAATGAAA	GAAAAGGCAC	TGTATTGCTA	CTGGGCTAGG	GCCTTCTCTC	24540
TGTCTGTTTC	TCTCTGTTTC	TCTCTGTCTT	TCTCTCTGTG	TCTCTTTCTC	TGTCTGTCTG	24600
TCTGTCTGTC	TGTCTGTCTC	TTTCTTTTCT	TCTGTCTCTG	TCTTTGTCCC	TCTCTCTCCC	24660
TCTCTGCCCT	GTCTCACTGT	GTCTGTCTTC	TATCTTACTC	TCTTTCTCTC	CCCGTCTGTC	24720
TCTCTCTCAC	TCCCTCCCTG	TCTGTTTCTC	TCTCTCTCTC	TTTCTGTCTG	TTTCTGTCTC	24780
TCTCTGTCTG	CCTCTCTCTT	TCTCTATCTG	TCTCTTTCTC	TGTCTGTCTG	CCCCTCTCTT	24840
TCTTTTTTCTG	TGTCTCTCTG	TCTGTCTCTC	TCTCTCTCTG	TGCCATATCT	CTGTCTTACT	24900
CTCTTTTCTCT	GCCTGTCTGT	CTGTCTCTCT	CTGTCTCTCC	CTCCCTTTCT	GCTTCTCTCT	24960
CTCTCTCTCT	CTCTNNNNCC	TCCCTGTCTG	TTTCTCTCTG	TCTCCCTCTC	TTTCTGTCTG	25020
TTTCTCACTG	TCTCTCTCTG	TCTGTCTGTT	TCATTTCTCT	TGTCTCTGTC	TCTGTCTCTC	25080
TCTCTCTCTG	TCTCTCCCTC	TCTGTGTGTA	TCTTTTGTCT	TACTCTCCTT	CTCTGCCTGT	25140
CCGTCTGTCT	GTCTGTCTCT	CTCTCTCCCT	GTCCCTCTCT	CTTTCTGTCT	GTTTCTCTCT	25200
CTCTCTCTCT	CTCTCTCTCT	CTGTCTCTGT	CTTTCTCTGT	CTGTCCCTTT	CTCTGTCTGT	25260
CTGCCTCTCT	CTTTCTCTTT	CTGTGTCTCT	CTGTCTCTCT	CTCTGTGCCT	ATCTGTCTCT	25320
TTACTCTCTT	TCTCTGCCCT	TCTATCTGTC	TGTCTCTCTC	TGTCTCTCTC	CCTGCCTTTC	25380
TGTTTTCTCTC	TCTCTCCCTC	TCTCGCTCTC	TCTGTCTTTT	TCTCTTTCTC	TCTGTTTCTC	25440
TGTCTCTCTC	TGTCCGTCTC	TGTCTTTTTT	TGTCTGTCTG	TCTCTCTCTT	TCTTTCTGTC	25500
GTCTGTCTCT	GTCTCTGTCT	CTGTCTCTCT	CTCTCTCTCT	CTCCTTGTCT	CTCTCACTGT	25560
GTCTGTCTTC	TGCTGTACTC	TCCTTCTCTG	CCGTGCCATC	TGTCTGTCTG	TCTCTCTCTC	25620
TCTCTCCCTA	CCTTTCTGTT	TCTCTCTCGC	TAGCTCTCTC	TCTCTCTGCC	TGTTTCTCTC	25680
TTTCTCTCTC	TGTCTTTCTC	TGTCTGTCTC	TTTCTCTGTC	TGTCTGTCTC	TTTCTCTCTG	25740
TCTCTGTCTC	TGTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TGCCCTCTCT	ACTGTGTCTG	25800
TCTTCTGTCT	TATTTCTTTT	CTCTCTCTGT	CTCTCTCTCT	CTCTCCCTTA	CTGTCTGTTT	25860
CTCTCTCTCT	CTCTCTCTTT	CTGCCTGTTT	CTCTCTGTCT	GTCTCTGTCT	TTCTCTCTCT	25920
GTCTGCCTCT	CTCTTTCTTT	TTCTGCGTCT	CTCTGTCTCT	CTCTCTCTCT	CTCTGTTCCT	25980
ATCTTCTGTC	TTACTCTGTT	TCCTTGCCCTG	CCTGCCTGTC	TGTGTGTCTG	TCTCTCTCTC	26040
TCTCTCTCTC	TCTCTCTCCC	TCCCTTTCTC	TTTCTCTGTC	TCTCTCTCTC	TTTCTGGGTG	26100
TTTCTCTCTG	TCTCTCTGTC	CATCTCTGTC	TTTCTATGTC	TGTCTCTCTC	TTTCTCTCTG	26160
TCTCTGTCTC	TGCCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTGTCTGTC	TCTCTCACTG	26220
TGTGTGTCTG	TCTTCTGTCT	TACTCTCCTT	CTCTGCCCTG	CCGTCTGTCT	GTCTGTCTCT	26280
CCCTCTCTCT	CCCTCCCTTT	CTGTTTCTCT	CTCTCTCTCT	TTCTGTCTGT	TTCTCTCTTT	26340
CTCTCTCTGT	CTGTCTCTTT	CTCTGTCTGT	CTGTCTCTCT	CTTTCTTTTT	CTCTGTCTCT	26400
CTGTCTCTCT	CTGTGTCTGT	CTCTCTGTCT	GTGCCATATCT	TCTGTCTTAC	TCTTTTCTCT	26460
TGGCTGTCTG	CCTGTCTCTC	TCTCTCTCTC	TGTCTGTCTC	CGTCCCTCTC	TCCCTGTCTG	26520
TCTGTTTCTC	TCTCTGCCTC	TCTCTCTCTC	TGTCTGTCTC	TTTCTCTGTC	TGTCTGTCTC	26580
TCTCTTTCTT	TTTCTCTGTC	TCTCTGTCTC	TCTCTGTGTC	TGTCTCTCTT	TCTGTGCCTA	26640
TCTTCTGTCT	TACTCTCTTT	CTCTGGCTGT	CTGCCCTGTC	CTCTCTCTCT	GCCTGTCTCC	26700
GTCCCTCCCT	CCCTGTCTGT	CTGTTTCTCT	CTCTGTCTCT	GTCTCTCTGT	CAATCTCTGT	26760
CTGTCTCTTT	CTCTTTCTCT	CTCTCTGTCT	CTGTCTCTCT	CTCTCTCTGC	CTGTCTCTCT	26820

CACTGTGTCT GTCTTCTGTC TTA CTCTCTCTT TCTCTTGCCCT GCCTCTCTGT CTGTCTGTCT 26880
 CTCTCCCTCC ATGTCTCTCT CTCTCTCTCA CTC ACTCTCT CTCCGTCTCT CTCTCTTTCT 26940
 GTCTGTTTCT CTCTCTGTCT GTCTCTCTCC CTCCATGTCT CTCTCTCTCT CTCTCACTCA 27000
 CTCTCTCTCC GTCTCTCTCT CTCTTTCTGT CTGTTTCTCT CTCTGTCTGT CTCTCTCCCT 27060
 CCATGTCTCT CTCTCTCCCT CTC ACTCACT CTCTCTCCGT CTCTCTCTCT CTTTCTGTCT 27120
 GTTTCTTTGT CTGTCTGTCT GTCTGTCTGT CTGTCTCTCT CTCTCTCTCT CTCTCTCTCT 27180
 CTCTCTGTTT GTCTTTCTCC CTCCCTGTCT GTCTGTCTGT CTCTCTCTCT CTGTCTCTGT 27240
 CTCTGTCTCT CTCTCTTTCT CTTTCTGTCT GTTTCTCTCT ATCTCTCGCT GTCCATCTCT 27300
 GTCTTTCTAT GTCTGTCTCT TTCTCTGTCA GTCTGTCTAGA CACACCCGTG CCGGTAGGGC 27360
 CCTGCCCTTC CACGAGAGTG AGAAGCGCGT GCTTCGGTGC TTAGAGAGGC CGAGAGGAAT 27420
 CTAGACAGGC GGGCTTGCT GGGCTTCCCC ACTCGGTGTA CGATTTCCGG AGGTGAGGC 27480
 CGGGTCCCCG CTTGGATGCG AGGGGCATTT TCAGACTTTT CTCTCGGTCA CGTGTGGCGT 27540
 CCGTACTTCT CCTATTTCCC CGATAAGTCT CCTCGACTTC AACATAAACT GTTAAGGCCG 27600
 GACGCCAACA CCGCGAAACC CCGTCTCTAC TAAAAATACA AAGCTGAGTC GGGAGCGGTG 27660
 GGGCAGGCCC TGTAATGCCA GCTCCTCGGG AGGCTGAGGC GGGAGAATCG CTTGAACCAG 27720
 GGAAGCGGAG GCTGCAGGGA GCCGAGATCG CGCCACTGCA CTACGGCCCA GGCTGTAGAG 27780
 TGAGTGAGAC TCGGTCTCTA AATAAAATAC GAAATTAATT AATTCAATTA TTCTTTTCCC 27840
 TGCTGACGGA CATTTGCAGG CAGGCATCCG TTGTCTTCGG GCATCACCTA GCGGCCACTG 27900
 TTATTGAAAG TCGACGTTGA CACGGAGGGA GGTCTCGCCG ACTTCACCGA GCCTGGGGCA 27960
 ACGGGTTTCT CTCTCTCCCT TCTGGAGGCC CCTCCCTCTC TCCCTCGTTG CCTAGGGAAC 28020
 CTCGCCTAGG GAACCTCCGC CCTGGGGGCC CTATTGTTCT TTGATCGGCG CTTTACTTTT 28080
 CTTTGTGTTT TGGCGCCTAG ACTCTTCTAC TTGGGCTTTG GGAAGGGTCA GTTTAATTTT 28140
 CAAGTTGCCC CCGGCTCCC CCGCTTACC ACCTCCCTTC ACCTTAATTT AGTGAGNCGG 28200
 TTAGGTGGGT TCCCCCAAA CCGCCCCCCC CCCCCGCCT CCAACACCC TGCTTGAAA 28260
 CCTTCCAGAG CCACCCCGGT GTGCCTCCGT CTTCTCTCCC CTTCCTCCAC CCTTGCCGG 28320
 CGATCTCAT CTGCCAGGC TGACATTTGC ATCGGTGGGC GTCAGGCCCTC ACTCGGGGG 28380
 CACCGTTTTT GAAGATGGGG CCGGCACGCT CCCACTTCCC CGGAGGCAGC TTGGGCCGAT 28440
 GGCATAGCCC CTTGACCCGC GTGGGCAAGC GGGCGGGTCT GCAGTTGTGA GGCTTTTCCC 28500
 CCCGCTGCTT CCCGCTCAGG CCTCCCTCCC TAGGAAAGCT TCACCTGGC TGGGTCTCGG 28560
 TCACCTTTTA TCACGATGTT TTAGTTTCTC CGCCTCCCG CCAGCAGAGT TTCACAATGC 28620
 GAAGGGCGCC ACGGCTCTAG TCTGGGCTT CTCAGTACTT GCCCAAAATA GAAACGCTTT 28680
 CTGAAAAC TAACATTTNC TCACTTAAGA TTTCCAGGA TTTCCAGGAA CGCGCTGTTT 28740
 GTTGGCTTGT TTTGTTTCTG TCTGTTTGT TTTGTTCTGT TTTTTCCTTT CTCGTATGTC 28800
 TTTCTTTTCA GGTGAAGTAG AAATCCCCAG TTTTCAGGAA GACGTCTATT TTCCCCAAGA 28860
 CACGTTAGCT GCCGTTTTTT CTTGTTGTGA ACTAGCGCTT TTGTGACTCT CTCAACGCTG 28920
 CAGTGAGAGC CGGTTGATGT TTACNATCCT ATCTTATTTT CTAGAAATCC 28980
 GTAGGCGAAT GCTGTGCTG TCTTGTGTTG TGTGTTGTT GTTGTGTTG TCGTCGTTGC 29040
 TGTGTGCTG GTCGTTGTTG TTGTCGTTGT CGTTGTTTTT AAAGTATACC CCGGCCACCG 29100
 TTTATGGGAT CAAAAGCATT ATAAAATATG TGTGATTATT TCTTGAGCAC GCCCTTCCCTC 29160
 CCCCTCTCTC TGTCTCTCTG TCTGTCTCTG TCTCTCTCTT TCTCTGTCTG TCTTCTCTCT 29220
 CTCTCTCTCT CTGTGCTCT CTCTCTCTG CTGTCTGTTT CTCTCTCTCT CCGCTCTCT 29280
 CTCTCTCTCT CTCTGCCTGT CTCTCTCACT GTGTCTGTCT TCTGTCTTAC TCCCTTTCTC 29340
 TGTCTGTCTG TCGGTCTCTC TCTCTCTCTC TCCCTGTCTG TATGTTTCTC TCTGTCTCTG 29400
 TCTCTCTCTC TCTTTCTGTT TCTCTCTCTC CGTCTCTGTC TTTCTCTGAC TGTCTCTCTC 29460
 TTTCTTCTC TCTGTCTCTC TCTGCCTGTC TCTCTCACT TGTCTTCTGT CTTATCTCTC 29520
 TCTCTGCCTG CTGTCTCTC TCTACTCTCT TCTCTGTGTG TCTCTCTCTC TCTTTCTGTT 29580
 TCTCTCTGTC TCTCTGTCCG TCTCTGTCTT TCTCTGTCTG TCTCTTTGTC TGTCTGTCTT 29640
 TGTCTTTTCT TCTCTCTGTC TCTGTCTCTC TCACTGTGTC TGTCTTCTGT CTTAGTCTCT 29700
 CTCTCTCTCT CTCCCTGTCT GTCTGTCTCT CTCTCTCTCT CTGTCTCTGT CTTCTCTCT 29760
 CTCTCTCTCT CTCTCTCTCT CTCTGTCTTT GTCTTTCTCT TCTTTCTCTG CCTGTCTGTC 29820
 CTCTCTGTGT GTCTGTCTTC TGTCTTACTG TCTTTCTCTG TGTCTGTCTG TGTCTGTCTC 29880
 TCTCTGTCTG TCTCTCTCTC TCTCTCCCC TGTGGGCTGT TTCTCTGTCT CTGTCTGTGT 29940
 CTCTCTTTCT GTCTGTTTCT CTCTGTCTGT CTTTCTCTCT CTGTCTCTTT CTCTCTGTCT 30000
 CTCTGTCTGT CTCTGTCTCT CTCTCTGTCT GTGGGGGTGT GTGTGTGTGT 30060
 GTGTATGTGT GTGTGTGTGT GTGTGTGTGT CTGCCTCTG TCTTACTCTC TTCTCTGCC 30120
 TGTCTGTCTG CCTGTCTGTT TGTCTCTCTC TCTCTGCCG TCTCTCTCCC TTCCTGTCTG 30180
 TTTCTCTCTC TTTCTGTTTC TCTCTGTCTC TGTCCATCTC TGTCTTTCTC CGTCTGTCTC 30240
 TTTATCTGTC TCTCTCCGTC TGTCTCTTTA TCTGTCTCTC TCTCTCTTTT TGTCTTTCTC 30300
 TCTCTGTGTA TCGTTGTCTC TCTCTGTCTG TCTGTCTCTC TGTCTCTCTG TCTCTCTCTC 30360
 TCTCTCTCTC TCTGTCTCTG TCTGTCCGTC TGTCTGTCTC GGTCTCTGCG TCTCGCTATC 30420
 TCCCGCCCTC TCTTTTTTTG CAAAAGAAGC TCAAGTACAT CTAATCTAAT CCCTTACCAA 30480
 GGCCTGAATT CTTCACTTCT GACATCCAG ATTTGATCTC CCTACAGAAT GCTGTACAGA 30540
 ACTGGCGAGT TGATTCTCTG ACTTGGATAC CTCATAGAAA CTACATATGA ATAAAGATCC 30600
 AATCCATAAA TCTGGGGTGG CTTCTCCCTC GACTGTCTCG AAAAATCGTA CCTCTGTTCC 30660
 CCTAGGATGC CGGAAGAGTT TTCTCAATGT GCATCTGCCG GTGTCTTAAG TGATCTGTGA 30720

CCGAGCCCTG TCCGTCCTGT CTCAAATATG TACGTGCAAA CACTTCTCTC CATTTCCACA 30780
 ACTACCCACG GCCCCTTG TG GAACCACTGG CTCTTTGAAA AAAATCCCAG AAGTGGTTTT 30840
 GGCTTTTTGG CTAGGAGGCC TAAGCCTGCT GAGAACTTTC CTGCCAGGA TCCTCGGGAC 30900
 CATGCTTGCT AGCGCTGGAT GAGTCTCTGG AAGGACGCAC GGGACTCCGC AAAGCTGACC 30960
 TGTCCACCCG AGGTCAAATG GATACCTCTG CATTGGCCCC AGGCCTCCGA AGTACATCAC 31020
 CGTCACCAAC CGTCACCGTC AGCATCCTTG TGAGCCTGCC CAAGGCCCCG CCTCCGGGGA 31080
 GACTCTTGGG AGCCCCGGCT TCGTCGGCTA AAGTCCAAAG GGATGGTGAC TTCCACCCAC 31140
 AAGGTCCCAC TGAACGGCGA AGATGTGGAG CGTAGGTCAG AGAGGGGACC AGGAGGGGAG 31200
 ACGTCCCGAC AGGCGACGAG TTCCCAAGGC TCTGGCCACC CCACCCACGC CCCACGCCCC 31260
 ACGTCCCGGG CACCCGCGGG ACACCGCCGC TTTATCCCTT CCTCTGTCCA CAGCCGGCCC 31320
 CACCCACCA CGCAACCCAC GCACACACGC TGGAGGTTCC AAAACCACAC GGTGTGACTA 31380
 GAGCCTGACG GAGCGAGAGC CCATTTACAG AGGTGGGAGG GGTGGGGGTG GGGTGGGTTG 31440
 GGGGTTGTGG GGTCTGTGGC GAGCCCGATT CTCCCTCTTG GGTGGCTACA GGTAGAAAT 31500
 GAATATCGCT TCTTGGGGGG AGGGGCTTCC TTAGGCCATC ACCGCTTGCG GGACTACCTC 31560
 TCAAACCCTC CTTTGGAGCC ACAAAATAGA TTCCACCCCA CCCATCGACG TTTCCCCCGG 31620
 GTGCTGGATG TATCCTGTCA AGAGACCTGA GCCTGACACC GTCGAATTAA ACACCTTGAC 31680
 TGGCTTTGTG TGTTTGTGTT TTTCTGAGAT GGAGTCTTGC TCTGTCCCCC AGGCTGGAGT 31740
 GCAGTGGCGT GATCTCAGCT CACTGGAACC TCTGCCTCCT TGTGCTCAAGT GATTCTCCTG 31800
 TCTCAGCGCC ACCATGGCCG GCTCATTTTT TTTTTTTTTT TTTTGGTAG ACACGGGGTT 31860
 TCACCCTCTT TCATTGGTTT TCACTGGAGA TTCTAGATTC GAGCCACACC TCATTCCGTG 31920
 CCACAGAGAG ACTTCTTTTT TTTTTTTTTT TTTTAAAGCG CAACGCAACA TGTATGCCTT 31980
 ATTTGAGTGG CATTATAATT CATTTATAGA GTGTTATAGA TGAAGAAACG GTATTAAACA 32040
 CTGTGCTAAT GATAGTGAAG GTGAAGACAA AAGAAAGGCT ATCTATTTTG TGGTTAGAAT 32100
 AAAGTTGCTC AGTATTTAGA AGCTACCTAA ATACGTCAGC ATTTACACTC TTCCTAGTAA 32160
 AAGCTGGCCG ATCTGAATAA TCCTCCTTTA AACAAACACA ATTTTGTAGA GGGTTAAGAT 32220
 TTTTTTAAGA ATGCGACTCC TGCAAAATAG CTGAACAGAC GATACACATT TAAAAAATA 32280
 ACAACACAAG GATCAACCAG ACTTGGGAAA AAATCGAAAA CCACACAAGT CTTATGAAGA 32340
 ACTGAGTTCT TAAAATAGGA CGGAGAACGT AGCTATCGGA AGAGAAGGCA GTATTGGCAA 32400
 GTTGATTGTT ACGTTGGTCA GCAGTAGCTG GCACTATCTT TTTGGCCATC TTTCCGGCAA 32460
 TGTAAC'TACT ACAGCAAAAT GAGATATGAT CCATTAACAA ACATATTCGC AAATCAAAAA 32520
 GTGTTTCAGT AATATAATGC TTCAGATTTA GAAGCAAAATC AAATGATAGA ACTCCACTGC 32580
 TGTAAATAAGT CACCCCAAAG ATCACCCTAT CTGACAAAAA AACTACCACA GGGTTATGAC 32640
 TTCAGAATCA TACTTTCTTC TTGATATTTA CTTATGTATT TATTTTTTTT AATTTATTTT 32700
 TCTTGAGACG CGTCTCGCTC TGTCGCCCAG GCTGGAGTGC GATGGTGTGA TCTCGGCTCA 32760
 CTGCAACCGC CACCTCCCTG GGTCAAGCG ATTCTCTGCT CTCAGCCTCC CGAGTAGCTG 32820
 GGACTACAGG TGCCCGCCAC GAGCCCGAGC TAATCTTTAT ACTTTTAATA GAGACGGGGT 32880
 TTCACCGTGT CGGCCCGGAT GGTCTCGATC TCTTGACCTC GTGACCCGCC CGCCTCGGCC 32940
 TCCCAAAGTG CTGGGATGAC AGGCGTGAGC CACTGAGCCC GGCTTCTCT TGACGTTTAA 33000
 ACTATGAAGT CAGTCCAGAG AAACGCAATA AATGTCAACG GTGAGGATGG TGTGAGGCA 33060
 GAAGTAGGAC CACACTTTTT CCTATCTTAT TCAGTTGATA ACAATATGAC CTAGGTAGTA 33120
 ATTTCC'TATG TGCCCTACTTA TACACGAGTA CAGACAAAAA AAACAGAGAG AACTGTAAT 33180
 TAAAGGGTAC GTGAAGTTCT TCATAGTAAC TCCGTAAACT GGAACACTGT CAAAAGCAG 33240
 CAGCTAGTGA ATTTGTTTCCA TGTATTTTTT TATTTATCCA TAAGTGAAC ATGCTATTCT 33300
 TTTCCAGTCT CCCAAGCACT TCTTGTCCTC ATCACCCTT CGGTGCTCGA AGAAAAAGTA 33360
 AGCAAATCAA GGAACACAAG CTAAGACAAA ACCAAAGACA ACTACAGCGT 33420
 CTGCAAAAGT TTGCTAGAAG ACTGAAACTG TTGAGTATAA GGATCTGGTA TTCTACGATC 33480
 ATGAGTTCAC TTCAGAGTTT GTTCAAGACA TACGTTTCGT AAGGAAACAT CTTAGTTAGA 33540
 AGTTATT'CAG CAGTAGGTAC CATCCCTAAG TATTTTTCAC CAAATCCGTG ACAATAAAGA 33600
 GCTATCTAAC CAGAAAAAT AGCGAGTACG GGCACCATCC ATAGGGCTTT GTCTTTACGC 33660
 TTCATTAGCA CTTACCATGC CTTACAATGT CTAGGATTGA CCCTGATAGC ATTTGAAAA 33720
 CAAGCTAATG CTTTGTCCAG TTCTTCAGTG AAGACAACTC ACGCCCTAAT GCGCTATAGG 33780
 CATAAGCATC ATTTGGATCC ACTTCGAGAG TTCTCTGGAA GAATTGAATC GCAATATCGT 33840
 GTTCCCCTTT GCAGACCGAA ACAGTTTCCC TGCAGCACAC CAGGCCTCTG GCTGGCGAAT 33900
 TTTTATCCAT GTCTGTGAAG TCTTTGGACA GAACTGAAAG AGCAACCTCT TTCGGAGGAT 33960
 GCCAAAGTGT TGTAGAGTAG ATCTCCATGC CTTCGACTCT GTAATCTCA ATCCTCTTAA 34020
 CCTCTGAGAA TTGTCTTTCA GCTTGCGTGG ACTCTGAAAG TTTACAATAG GCCNTTCCG 34080
 ATTTGGCACA GTACCCAACC GGTATTGCAG TGGTGAGAA GCTAAATAAC CTATGAGGCT CAAGATGCTG 34140
 ATAGCTTCTT TGCCGTGGTA AGAACACAAA GCTAAATAAC CTTTCCCCCT TTCACGAAGA 34200
 AGGCTCATCA AGCCTTCCGC TGCTGCTTTT AAGCCTGAAT AAGCCTGAAT CTGAGGCGC 34260
 ATTGCGGCTA TTTTCCCTTC TGAAATGACG GAAGAGTCCA ATTTTGTAC TTCCAGGCTA 34320
 TCACTTATGT TCGGTGGAGT TATTGCTCCT TTATTAGTTT TACTTTTGGT TCTTCTGTTT 34380
 GGGATTTT'AG GTGGAACCTT CATTTTTAAT TTTCTCTTAA TTCTCCTCGG TTGTGGAGCT 34440
 GTCACTAGTC AAGAGTCGTG AATTTCTTTC AGGNCGGTGC ATTTGGGGGA GATGCCATAG 34500
 TGGGGCTCAA TACCTGAGGT GTTGCCCTTG TCGCGGACC AGAACTTTGT GTTTTGTCAA 34560
 GGACTGGAGT TACCTTTCCG CTCTTTCCCC TCTGCGAGAA GACAGACGGT GTTCCGGTTT 34620

GGCCGATTCT	GGCAACAGGC	TTTTCTGAAG	GGGCTCCGGT	GGATGGCAGC	TCAGTGACAG	34680
ACGGTGTCTC	ATACCAAGTG	AGTTTTGTCA	ATAGGGTCCG	TCTCCGGGAC	TTGGGGTTTC	34740
TAATGGCAAA	ATGCCAACAC	TTGGGGTTAA	TGGACTAACA	GCTGCTGGTC	CTCCTAATAA	34800
ACTTCGACCA	GTTTTTGGTT	TATGTTGAAC	CTGTTTAGAT	CATATGGAAG	TTCTGTCTCC	34860
CAGTGGGACA	GTATCAGGTG	AAAGGACAGC	TGAATCGATA	GAAGACACTG	GGGAGTCTGT	34920
ATTCAGGAG	TACTTTGAAT	TGGAAGATTG	TAAATTCCAT	CCGTTTTCAT	CGACGGTGTG	34980
CTGGGGTGTT	TCCGTAAGAA	CGGTCTCGGG	CTGTCTGTGA	CATAAACTAG	GACGAGGTCC	35040
AAGTGTGTG	GCGCAACACT	TGGACAGGCA	GTTGCTAAAG	CTCTCTAGAG	AGGTGAATCA	35100
AAATGTTTGG	TCAGGATCTG	GCTTTTCCCC	CCTATTTTAC	ATCATGATTG	AAAGGGACAC	35160
CAGAGGAAAG	GATTTCAACG	AAGGCTCTTT	TGGTCACATT	CTGATCCTTT	GGTAAGCCGA	35220
TCTGTCTTGC	AATATACATG	TCCCAGCGAT	GGAAAGGGAA	AGCGAGCTGA	ATCACCACAA	35280
TCAGGAACGA	TAATATCATC	GTGGCTTTTC	TGCTTATGAA	ACACTCCACC	CGATAAGATT	35340
TGATCCCCCT	CTGCAAGCTT	GCTGAGATCA	ACACAACATT	TCGCAAGCAG	GCATTTGCAT	35400
TGCGGGGTAG	TACAACTGTG	TCCTTTCAAG	AGTCTATATG	TTTTATAGGC	CTTTCCTGAG	35460
CGGTAAGAAG	AGGTCGCCAG	TAAGAACAAG	GCTTCTTCTG	AGTGTACTTC	TGCATAAAGG	35520
CGTTCGTGCG	GGGAAACCGC	ATCTCGGTAG	GCATAGTGGT	TTAGTGCTTG	CCATATAGCA	35580
GCCTGGACGG	GTCCCTGCAG	CACCGCCATC	CTCGAGGCTC	AGGCCCACTT	TCTGCAGTGC	35640
CACAGGCACC	CCCCCCCCCC	CATAGCGGCT	CCGGCCCCGG	CAGCCCCGGC	TCATTTAAAG	35700
GCACCAGCCG	CCGTTACCGG	GGGATGGGGG	AGTCCGAGAC	AGAATGACTT	CTTTATCCTG	35760
CTGACTCTGG	AAAGCCCCGG	GCCTTGTGAT	CCATTGCAAA	CCGAGAGTCA	CCTCGTGTTC	35820
AGAACACGGA	TCCACTCCCC	AGTTCAGTGG	GGGGATGTGA	GGGGTGTGGG	AGGTAGGACG	35880
AAGGACTCTC	TTCCTTCTGA	TTCGGTCTGC	ACAGTGGGGC	CTAGGGCTGG	AGCTCTCTCC	35940
GTGCGGACCG	CTGACTCCCT	CTACCTTGGG	TTCCCTCGGC	CCCACCCTGG	AACGCCGGGC	36000
CTTGGCAGAT	TCTGGCCCTT	TCTGGCCCTT	CAGTCGCTGT	CAGAAACCCC	ATCTCATGCT	36060
CGGATGCCCC	GAGTGACTGT	GGCTCGCACC	TCTCCGGAAA	CATTGGAAAT	CTCTCCTCTA	36120
CGCGCGGCCA	CCTGAAACCA	CAGGAGCTCG	GGACACACGT	GCTTTCGGGA	GAGAATGCTG	36180
AGAGTCTCTC	GCCGACTCTC	TCTTGACTTG	AGTTCCTCGT	GGGTGCGTGG	TTAAGACGTA	36240
GTGAGACCAG	ATGTATTAAC	TCAGGCCGGG	TGCTGGTGGC	TCACGCCTGT	AACCCCAACA	36300
CTTTGGGAGG	CCGAGGCCGT	AGGATCCCTC	GAGGAATCGC	CTAACCCCTG	GGAGGTTGAG	36360
GTTGCAGTGA	GTGAGCCATA	GTTGTGTGAC	TGTGCTCCAG	TCTGGGCGAA	AGACAGAATG	36420
AGGCCCTGCC	ACAGGCAGGC	AGGCAGGCAG	GCAGGCAGAA	AGACAACAGC	TGTATTATGT	36480
TCTTCTCAGG	TAGGGAAGCA	AAAATAACAG	AATACAGCAC	TTAATTAATT	TTTTTTTTTT	36540
CCTTCGGACG	GAGTTTCACT	CTTGGTGCCC	ACGCTGGAGT	GCAGTGGCAC	CATCTCGGCT	36600
CACCGCAACC	TCCACCTCCC	GCGTTCGAAG	GATTCTCCTG	CCTCAGCCTC	CTGAGTAGCT	36660
GGGATTACAG	GGAGGAGCCA	CCACACCCAG	CTGATTTTGT	ATTGTTAGTA	GAGACGGCAT	36720
TTCTCCATGT	TGCTGGGGTG	GGCTCGAAGC	TGGCGAACCC	AGTGGATCTG	CCCCCCCCCG	36780
CCTCCCAAAG	TGCTGGGGTG	ACAGGCGTGA	GCCATCGTGA	CTGGCCGGCT	ACGTTTATTT	36840
ATTTATTTTT	TTAATTATTT	TACTTTTTTT	TAGTTTTCCA	TTTAAATCTA	TTTATTTATT	36900
TACATTTATT	TATTTATTTA	TTTATTTACT	TATTTATTTA	TTTTTCGAGAC	AGACTCTCGC	36960
TCTGCTGCCC	AGGCTGGAGT	GCACGCGCGT	GATCTCGGCT	CACTGCAACG	TCCGCTCCC	37020
GGGTTACACG	CATTCTCCTG	CCTCAGCCTC	CCAAGTAGCT	GGGACTACAG	GCGCCCCGCA	37080
CCGTGCCCCG	CTAACTTTTT	GTATTTTGAG	TAGAGATGGG	GTTTCACTGT	GGTAGCCAGG	37140
ATGGTCTCGA	TCTCCTGACC	CCGTGATCCG	TCCACCTCGG	CCTCCCAAAG	TGCTGGGATG	37200
ACAGGCGTGA	GCCACCGGCG	CCGGCCTATT	TATCTATTTA	TTAACTTTGA	GTCCAGGTTA	37260
TGAAACACAG	TAGTTTTTGT	AATTTTTTTT	TTTTTTTTTT	TTTTTTTGAGA	CGAGGTTTCA	37320
CCGTGTTGCC	AAGGCTTGGA	CCGAGGGATC	CACCGGCCCT	CGGCCCTCCA	AAAGTGC GGG	37380
GATGACAGGC	GCGAGCCTAC	CGCGCCCGGA	CCCCCCTTTT	CCCCTTCCCC	CGCTTGTCTT	37440
CCCGACAGAC	AGTTTACAGG	CAGAGCGTTT	GGCTGGCGTG	CTTAAACTCA	TTCTAAATAG	37500
AAATTTGGGA	CGTCAGCTTC	TGGCCTCACG	GACTCTGAGC	CGAGGAGTCC	CCTGGTCTGT	37560
CTATCACAGG	ACCGTACACG	TAAGGAGGAG	AAAAATCGTA	ACGTTCAAAG	TCAGTCATTT	37620
TGTGATACAG	AAATACACGG	ATTCACCCAA	AACACAGAAA	CCAGTCTTTT	AGAAATGGCC	37680
TTAGCCCTGG	TGTCCGTGCC	AGTGATTCTT	TTCGGTTTGG	ACCTTGACTG	AGAGGATTCC	37740
CAGTCCGTCT	CTCGTCTCTG	GACGGAAGTT	CCAGATGATC	CGATGGGTGG	GGGACTTAGG	37800
CTCGCTCCCC	CCAGGAGCCC	TGGTCGATTA	GTTGTGGGGA	TCGCCTTGGA	GGGCGCGGTG	37860
ACCCACTGTG	CTGTGGGAGC	CTCCATCCTT	CCCCCACC	CCTCCCCAGG	GGGATCCCAA	37920
TTCATTCCGG	GCTGACACGC	TCACTGGCAG	GCGTCGGGCA	TCACCTAGCG	GTCACGTGTA	37980
CTCTGAAAAC	GGAGGCCTCA	CAGAGGAAGG	GAGCACCAGG	CCGCCTGCGC	ACAGCCTGGG	38040
GCAACTGTGT	CTTCTCCACC	GCCCCCGCCC	CCACCTCCAA	GTTCCCTCCCT	CCCTTGTTGC	38100
CTAGGAAATC	GCCACTTTTG	CGACCGGTG	TTGATTGACCT	TTGATCAGGC	AAAAACGAAC	38160
AAACAGATAA	ATAAATAAAA	TAACACAAAA	GTAACATACT	AAATAAAATA	AGTCAATACA	38220
ACCCATTACA	ATACAATAAG	ATACGATACG	ATAGGATGCG	ATAGGATACG	ATAGGATACA	38280
ATACAATAGG	ATACGATACA	ATACAATACA	ATACAATACA	ATACAATACA	ATACAATACA	38340
ATACAATACA	ATACAATACG	CCGGGCGCGG	TGGCTCATGC	CTGTCAATCC	GTCACTTTGG	38400
GATGCCGAGG	TGCACGCATC	ACCTGAAGTC	GGGAGTTGGA	GACAAGCCCG	ACCAACATGG	38460
AGAAATCCCC	TCTCAATTGA	AAATACAAAA	CTAGCCGGGC	GCGGTGGCAC	ATGCCTATAA	38520

TCCCAGCTGC TAGGAAGGCT GAGGCAGGAG AATCGCTTGA ACCTGGGAAG CGGAGGTTGC 38580
 AGTGAGCCGA GATTGCGCCA TCGCACTCCA GTCTGAGCAA CAAGAGCGAA ACTCCGTCTC 38640
 AAAAATAAAT ACATAAATAA ATACATACAT ACATACATAC ATACATACAT ACATACATAC 38700
 ATAAATTAAA ATAAATAAAT AAAATAAATG AAATAAATGG GCCCTGCGCG GTGGCTCAAG 38760
 CCTGTCAATCC CCTCACTTTG GGAGGCCAAG GCCGGTGGAT CAAGAGGCGG TCAGACCAAC 38820
 AGGGCCAGTA TGGTGAAACC CCGTCTCTAC TCACAATACA CAACATTAGC CGGGCGCTGT 38880
 GCTGTGCTGT ACTGTCTGTA ATCCCAGCTA CTCGGGAGGC CGAGCTGAGG CAGGAGAATC 38940
 GCTTGAACCT GGGAGGCGGA GGTTCAGTG AGCCGAGATC GCGCCACTGC AACCCAGCCT 39000
 GGGCGACAGA GCGAGACTCC GTCTCCAAAA AATGAAAAATG AAAATGAAAC GCAACAAAAT 39060
 AATTAAAAAG TGAGTTTCTG GGGAAAAAGA AGAAAAAGAAA AAAGAAAAAA ACAACAAAAC 39120
 AGAACAAACC CACCGTGACA TACACGTACG CTTCTCGCCT TTCGAGGCCT CAAACACGTT 39180
 AGGAATTATG CGTGATTTC TTTTFTAATC TCATTTTATG TTATTATCAT GATTGATGTT 39240
 TCAGAGCGGA GCTTCGGAGG CCCGCCCTCC CTGGTTGCC AGACAACCCC GGGAGACAGA 39300
 CCCTGGCTGG GCCCGATTGT TCTTCTCCTT GGTCAGGGGT TTCCTTGTCT TTCTTCGTGT 39360
 CTTTAACCCG CGTGGACTCT TCCGCTCGG GTTTGACAGA TGGCAGCTCC ACTTTAGGCC 39420
 TTGTTGTGT TGGGGACTTT CCTGATTCTC CCCAGATGTA GTGAAAGCAG GTAGATTGCC 39480
 TTGCCTGGCC TTGCCTGGCC TTGCCTTTTC TTTCTTTCTT TCTTTCTTTA TTACTTTCTC 39540
 TTTTCTTCT TCTTCTTCTT CTTTFTTTTG AGACAGAGTT TCACTCTTGT TGCCCAGGCT 39600
 AGAGGGCAAT GGC CGATCT CGGCTCACCG CACCCTCCGC CTCCAGGTT CAAGCGATTCT 39660
 TCCTGCCTCA GCCTCCTGAT TAGCTGGGAT TACAGGCATG GGCCACCGTG CTGGCTGATG 39720
 TTTGTACTTT TAGTAGAGAC GGTGTTTTTC CATGTTGGTC AGGCTGGTCT CCCACTCCCA 39780
 ACCTCAGGTG GTCCGCTGCT CTTAGCCTCC CAAAGTGCTG GGATGACAGG CGTGAACCG 39840
 CGCCCAGCCT CTCTCTCTCT CTCGCTCGCT CTGCTGCTTG TGTCTGCTTG CTTTCGTGCT 39900
 TTCTTGCTTT CCCGTTTTCT TGCTTTCTTT CTTTCTTTCT TTTCTTTCTT GCTTGCTTTT 39960
 TTGCTTGCTT GCTTGCTTTT GTGCTTTCTT GCTTTCTCTT TTTCTTTCTT TCTTTCTTTT 40020
 TTTCTTTCTT TTGTTTCTTT CTGCTTTGCT TTCTTGCTTG CTTGCTTGCT TTCGTGCTTT 40080
 CTTGCTTTCT TGTTTTCTTT TTTCTTTCTT TCTTTCTTT TCTTTCTTGC TTGCTTTCTT 40140
 GCTTGCTTGCT TTTCTGCTTT TCTTGTTTTT TCGATTTCTT TCTTTCTTTT GTTTCTTTCC 40200
 TGCTTGCTTT CTTGCTTGCT TGCTTTCTTG CTCTTGCTT TCCTGTTTTT TTTCTTTCTT 40260
 TCTTTCTTTT GTTTCTTTCT TGCTTGCTTT CTGCTTGCT TGCTTTCTTG CTGTCTTGTT 40320
 TCTCGATTTT TTTCTTTCTT TTGTTTCTTT CCTGCTTGCT TTCTTGCTTG ATTGCTTTCT 40380
 TGCTTTCTTG CTTTCTTTCT CTTTCTTTCT TTTTGTTTT TTTCTTTCTT TTTCTTTCTT 40440
 TTTCTTGCTT TCTTGCTTGC TTGCTTTCTG GCTTTCTTGT TTTCTTGCTT TCTTTCTTTT 40500
 GTTTCTTTCT TGCTTGCTTT CTGCTTTCTT TGTTTTCTTG CTTTCTTGCT TGCTTGCTTT 40560
 CGTGCTTTCT TTTCTGCTTT CTTTCTTTCT TTTCTTTCTT TTTCTTTCTT TTTCTTTCTT 40620
 CTTTCTTTCT ATCATCATCT TTTCTTTCTT TTTCTTTCTT TTTCTTTCTT TTTCTTTCTT 40680
 TTTCTTTCTT TCTTTCTTTT TTTCTTTCTT TCTTTCTGTT TCGTCTTTT GAGACAGAGT 40740
 TTCCTCTTG TTTCCACGGC TAGAGTGCAA TGGCGCGATC TTGGCTCACC GCACCTTCCG 40800
 CCTCCCGGGT TCGAGCGCTT CTCCTGCCCT CAGCCTCCCG ATTAGCGGGG ATTGACAGGG 40860
 AGGCACCCCT ACGCCGCTT TGGCTGATG TTGTGTTTT AGTAGGCACG CCGTGTCTCT 40920
 CCATGTTGCT CAGGCTGGTC CAGGCTCCTG GACCTCCTGT GATGCGCCCA CCTCGGCTC 40980
 TCGAAGTGCT GGGATGACGG GCGTGACGAC CGTGCCCGGC CTGTTGACTC ATTTCTGCTT 41040
 TTTATTTCTT TCGTTTCCAC GCGTTTACTT ATATGTATTA ATGTAAACGT TTCTGTACG 41100
 TTATATGCAA ACAACGACAA CGTGTATCTC TGCATTGAAT ACTCTTGCGT ATGGTAAATA 41160
 CGTATCGGTT AGACTTCTGT AGACTTCTGT ATGATAGATG TAGGTGTCTG TGTATACAA 41220
 ATAAATACAT ATCGCTCTAT AAAGAAGGGA TCGTCGATAA AGACGTTTAT TTTACGTATG 41280
 AAAAGCGTCG TATTTATGTG TGTAATGAA CCGAGCGTAC GTAGTTATCT CTGTTTCTT 41340
 TCTTCTCTC CTTCGTGTTT TTCTTCTTCT CTTTCTGTC TTTTCTTCTT CGTGCTTTAT 41400
 TTCTTCTCTT TTCCCTTTCC TTCTTCTTCT TTTCTTCTT TTTCTTCTT TTTCTTCTT 41460
 TTCTTCTTCT TTCCCTGCTT TTCTTCTTCT TTCTTCTTCT TTTCTTCTT TTTCTTCTT 41520
 TTTCTTCTCT TTCTTCTTCT TTCTTCTTCT TTTCTTCTT TTTCTTCTT TTTCTTCTT 41580
 GTCTTTTAAA AAATTGGAGT GTTTCAGAAG TTTACTTTGT GTATCTACGT TTTCTAAATT 41640
 GTCTCTCTT TCTCCATTTT CTTCCTCCCT CCCCTCCCTC CTCCCTGCTC CTTTCCCTCC 41700
 TCTCTTCCCT TTCGCCATCT GTCTCTTTT CCCACTCCC TCCCCCGTC TGTCTCTGCG 41760
 TGGATTCCGG AAGAGCCTAC CGATTCTGCC TCTCCGTGTG TCTGACGCA CCCCAGGACC 41820
 GAGTCTTGT GTGTTCTTTC TCCCTCCCTC CCTCCCTCCC TCCCTCCCTC CCTCCCTGCT 41880
 TCCGAGAGGC ATCTCCAGAG ACCGCGCCGT GGGTTGTCTT CTGACTCTGT CGCGGTGCG 41940
 CGAGAGACGC GTTTTGGGCA CCGTTTGTGT GGGGTTGGGG CAGAGGGGCT GCGTTTTCGG 42000
 CCTCGGAAG AGCTTCTCGA CTCACGTTT CGTTTTCGCG GTTGTGCGGC TCCATCTGGC GGCCGCTTTG 42060
 GCCGATCTG TCTCGCTGAC GTCCGCGGCG GTTGTGCGGC TCCATCTGGC GGCCGCTTTG 42120
 AGATCGTGCT CTCGGCTTCC GGAGCTGCGG TGGCAGCTGC CGAGGGAGGG GACCGTCCCC 42180
 GCTGTGAGCT AGGCAGAGCT CCGGAAAGCC CGCGTCTGTC AGCCCGGCTG GCCCGGTGGC 42240
 GCCAGAGCTG TGGCCGGTCT CTGTGAGTC ACAGCTCTGG CGTGCAAGTT TATGTGGGG 42300
 AGAGGCTGTC GCTGCGCTTC GGGGCGCGG GCGGCGTGG GCGTGCCTCG CCGGTGCGAC 42360
 CAGCGCGCCG TAGCTCCCGA GGCCCGAGCC GCGACCCGGG GGACCCCGCG CGCGTGCGCG 42420

AGGCTGGGGA	CGCCCTTCCC	GGCCCGGTCG	CGGTCCGCTC	ATCCTGGCCG	TCTGAGGCGG	42480
CGGCCGAATT	CGTTTCCGAG	ATCCCCGTGG	GGAGCCGGGG	ACCGTCCCGC	CCCCGTCCCC	42540
CGGGTGCCGG	GGAGCGGTCC	CCGGGCCGGG	CCGCGGTCCC	TCTGCCGCGA	TCCTTTCTGG	42600
CGAGTCCCCG	TGGCCAGTCG	GAGAGCGCTC	CCTGAGCCGG	TGCGGCCCGA	GAGGTCGCGC	42660
TGGCCGGCCT	TCGGTCCCTC	GTGTGTCCCG	GTCGTAGGAG	GGGCCGGCCG	AAAATGCTTC	42720
CGGCTCCCCG	TCTGGAGACA	CGGGCCGGCC	CCTGCGTGTG	GCCAGGGCGG	CCGGGAGGGC	42780
TCCCCGGCCC	GGCGCTGTCC	CCGCGTGTGT	CCTTGGGTTG	ACCAGAGGGA	CCCCGGGCGC	42840
TCCGTGTGTG	GCTGCGATGG	TGGCGTTTTT	GGGGACAGGT	GTCCGTGTCC	GTGTCGCGCG	42900
TCGCCTGGGC	CGGCGGCGTG	GTCGGTGACG	CGACCTCCCC	GCCCCGGGGG	AGGTATATCT	42960
TTCTGCTCCG	GTCGGCAATT	TTGGGCCGCC	GGGTTATAT			42999

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

CTCCCCGCGC	GGCCCCGTGT	TCGCCGTTCC	CGTGGCGCGG	ACAATGCGGT	TGTGCGTCCA	60
CGTGTGCGTG	TCCGTGCAGT	GCCGTTGTGG	AGTGCCCTCG	TCTCCTCCTC	CTCCCCGGCA	120
GCGTTCAC	GTTTGGGGAC	CACCGGTGAC	CTCGCCCTCT	TCGGGCCTGG	ATCCG	175

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 755 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GGTCTGGTGG	GAATTGTTGA	CCTCGCTCTC	GGGTGCGGCC	TTTGGGGAAC	GGCGGGGTCG	60
GTCGTGCCCG	GCGCCGGACG	TGTGTCGGGG	CCCACTTCCC	GCTCGAGGGT	GGCGGTGGCG	120
GCGGCGTTGG	TAGTCTCCCG	TGTTGCGTCT	TCCCGGGCTC	TTGGGGGGGG	TGCCGTCTGT	180
TTCGGGGCCG	GCGTTGCTTG	GCTTACGCAG	GCTTGGTTTG	GGACTGCCTC	AGGAGTCGTG	240
GGCGGTGTGA	TTCCCGCCCG	TTTGCCCTCG	CGTCTGCCTG	CTTTGCCTCG	GGTTTGCTTG	300
GTTCGTGTCT	CGGGAGCGGT	GGTTTTTTTT	TTTTTCGGGT	CCCGGGGAGA	GGGGTTTTTC	360
CGGGGGACGT	TCCCGTCGCC	CCCTGCCGCC	GGTGGGTTTT	CGTTTCGGGC	TGTGTTCTGT	420
TCCCTTCCC	CGTTTCGCCG	TCGGTTCTCC	CCGGTCGGTC	GGCCCTCTCC	CCGGTCGGTC	480
GCCCGGCCGT	GCTGCCGGAC	CCCCCTTCT	GGGGGGGATG	CCCGGGCACG	CACGCGTCCG	540
GGCGGCCACT	GTGGTCCGGG	AGCTGCTCGG	CAGGCGGGTG	AGCCAGTTGG	AGGGGCGTCA	600
TGCCCCCGCG	GGCTCCCGTG	GCCGACGCGG	CGTGTCTTTT	GGGGGGGCCT	GTGCGTGCGG	660
GAAGGCTGCG	CACGTTGTCT	GTCCTTGCGA	GGGAAAGAGG	CTTTTTTTTT	TTAGGGGGTG	720
GTCTTCTGTC	GTCCCGTCCG	CGGTGGATCC	GGCCT			755

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GGCCGAGGTG	CGTCTGCGGG	TTGGGGCTCG	TCCGGCCCCG	TCGTCCTCCG	GGAAGGCGTT	60
TAGCGGGTAC	CGTCGCCGCG	CCGAGGTGGG	CGCACGTCGG	TGAGATAACC	CCGAGCGTGT	120
TTCTGGTTGT	TGGCGGCGGG	GGCTCCGGTC	GATGTCTTCC	CCTCCCCCTC	TCCCCGAGGC	180
CAGGTCAGCC	TCCGCCTGTG	GGCTTCGTCG	GCCGCTCTCC	CCCCCTCAC	GTCCCTCGCG	240
AGCGAGCCCC	TCCGTTTCGAC	CTTCCTTCCG	CCTTCCCCCC	ATCTTTCCGC	GCTCCGTTGG	300
CCCCGGGGTT	TTCACGGCGC	CCCCACGCT	CCTCCGCCTC	TCCGCCCCGTG	GTTTGGACGC	360
CTGGTTCGGG	TCTCCCCGCC	AAACCCCGGT	TGGGTTGGTC	TCCGGCCCCG	GCTTGCTCTT	420
CGGGTCTCCC	AACCCCCGGC	CGGAAGGGTT	CGGGGGTTCC	GGG		463

(2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 378 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

GGATTCTTCA	GGATTGAAAC	CCAAACCGGT	TCAGTTTCCT	TTCCGGCTCC	GGCCGGGGGG	60
GGCGGCCCCG	GGCGGTTTGG	TGAGTTAGAT	AACCTCGGGC	CGATCGCACG	CCCCCGTG	120
CGGCGACGAC	CCATTCGAAC	GTCTGCCCTA	TCAACTTTTCG	ATGGTAGTCG	ATGTGCCTAC	180
CATGGTGACC	ACGGGTGACG	GGGAATCAGG	GTTTCGATTCC	GGAGAGGGAG	CCTGAGAAAC	240
GGCTACCACA	TCCAAGGAAG	GCAGCAGGCG	CGCAAATTAC	CCACTCCCGA	CCCGGGGAGG	300
TAGTGACGAA	AAATAACAAT	ACAGGACTCT	TTCGAGGCCC	TGTAATTGGA	ATGAGTCCAC	360
TTTAAATCCT	TTAAGCAG					378

(2) INFORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 378 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GATCCATTGG	AGGGCAAGTC	TGGTGCCAGC	AGCCGCGGTA	ATTCCAGCTC	CAATAGCGTA	60
TATTAAAGTT	GCTGCAGTTA	AAAAGCTCGT	AGTTGGATCT	TGGGAGCGGG	CGGGCGGTCC	120
GCCGCGAGGC	GAGTCACCGC	CCGTCCCCGC	CCCTTGCTCT	TCGGCGCCCC	CTCGATGCTC	180

TTAGCTGAGT	TGTCCCGCGG	GGCCCGAAGC	GTTTACTTTG	AAAAAATTAG	AGTTGTTTCA	240
AAGCAGGCCC	GAGCCGCCTG	GATACCGCCA	GCTAGGAAAT	AATGGAATAG	GACCGCGGTT	300
CCTATTTTGT	TTGGTTTTTCG	GAAGTGAGCC	CATGATTAAG	GGAAACGGCC	GGGGGCATTC	360
CCTTATTGCG	CCCCCCTA					378

(2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 719 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GGATCTTTCC	CGCTCCCCGT	TCCTCCCGGC	CCCTCCACCC	GCGCGTCTCC	CCCCTTCTTT	60
TCCCCTCTCC	GGAGGGGGGG	GAGGTGGGGG	CGCGTGGGCG	GGGTCGGGGG	TGGGGTCGGC	120
GGGGGACCGC	CCCCGGCCGG	CAAAAGGCCG	CCGCCGGGCG	CACTTCAACC	GTAGCGGTGC	180
GCCGCGACCG	GCTACGAGAC	GGCTGGGAAG	GCCCGACGGG	GAATGTGGCT	CGGGGGGGGC	240
GGCGCGTCTC	AGGGCGCGCC	GAACCACTC	ACCCCGAGTG	TTACAGCCCT	CCGGCCGCGC	300
TTTCGCGGAA	TCCCAGGGGC	GAGGGGAAGC	CCGATACCCG	TCGCCGCGCT	TTTCCCCTCC	360
CCCCGTCCGC	CTCCCGGGCG	GGCGTGGGGG	TGGGGGCCGG	GCCGCCCCCTC	CCACGCCCCGT	420
GGTTTCTCTC	TCTCCCGGTC	TCGGCCGGTT	TGGGGGGGGG	AGCCCGGTTG	GGGGCGGGGC	480
GGACTGTCTT	CAGTGCGCC	CGGGCGTCGT	CGCGCCGTCG	GGCCCGGGGG	GTTCTCTCGG	540
TCACGCCCGC	CCCACGAAG	CCGAGCGCAC	GGGGTCGGCG	GCGATGTCGG	CTACCCACCC	600
GACCCGTCTT	GAAACACGGA	CCAAGGAGTC	TAACGCGTGC	GCGAGTCAGG	GGCTCGCACG	660
AAAGCCGCCG	TGGCGCAATG	AAGGTGAAGG	GCCCCGTCCG	GGGGCCCGAG	GTGGGATCC	719

(2) INFORMATION FOR SEQ ID NO:24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 685 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

CGAGGCCTCT	CCAGTCCGCC	GAGGGCGCAC	CACCGGCCCC	TCTCGCCCGC	CGCGTCGGGG	60
AGGTGGAGCA	CGAGCGTACG	CGTTAGGACC	CGAAAGATGG	TGAACTATGC	CTGGGCAGGG	120
CGAAGCCAGA	GGAAACTCTG	GTGGAGGTCC	GTAGCGGTCC	TGACGTGCAA	ATCGGTCTGC	180
CGACCTGGGT	ATAGGGGCGA	AAGACTAATC	GAACCATCTA	GTAGCTGGTT	CCCTCCGAAG	240
TTTCCCTCAG	GATAGCTGGC	GCTCTCGCAA	CCTTCGGAAG	CAGTTTATC	CGGGTAAAGG	300
CGGAATGGAT	TAGGAGGTCT	TGGGGCCGGA	AACGATCTCA	AACTATTTCT	CAAACTTTAA	360
ATGGGTAAAG	AAGCCCGGCT	CGCTGGCGTG	GAGCCGGGCG	TGGAATGCGA	GTGCCTAGTG	420
GGCCACTTTT	GGTAAGCAGA	ACTGGCGCTG	CGGGATGAAC	CGAACGCCCG	GTTAAGGCGC	480
CCGATGCCGA	CGCTCATCAG	ACCCAGAA	AGGTGTTGGT	TGATATAGAC	AGCAGGACGG	540
TGGCCATGGA	AGTCGGAATC	CGCTAAGGAG	TGTGTAACAA	CTCACCTGCC	GAATCAACTA	600
GCCCTGAAAA	TGGATGGCGC	TGGAGCGTCG	GGCCCATACC	CGGCCGTCGC	CGGCAGTCGG	660
AACGGGACGG	GACGGGAGCG	GCCGC				685

(2) INFORMATION FOR SEQ ID NO:25:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

GAGGAATTCC CCTATCCCTA ATCCAGATTG GTG

33

(2) INFORMATION FOR SEQ ID NO:26:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 35 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

AAACTGCAGG CCGAGCCACC TCTCTTCTGT GTTTG

35

(2) INFORMATION FOR SEQ ID NO:27:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

AGGAATTCAC AGAAGAGAGG TGGCTCGGCC TGC

33

(2) INFORMATION FOR SEQ ID NO:28:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 34 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

AGCCTGCAGG AAGTCATACC TGGGGAGGTG GCCC

34

(2) INFORMATION FOR SEQ ID NO:29:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

AAACTGCAGG TTAATTAACC CTAACCCTAA CCCTAACCTT AACCTAACCT CTAACCCTAA
CCCTAACCTT AACCCGGGAT

60
80

(2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

TTGGGCCCTA GGCTTAAGG

19

(2) INFORMATION FOR SEQ ID NO:31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

GCCAGGGTTT TCCCAGTCAC GACGT

25

(2) INFORMATION FOR SEQ ID NO:32:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

GCTGCAAGGC GATTAAGTTG GGTAAC

26

(2) INFORMATION FOR SEQ ID NO:33:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

TATGTTGTGT GGAATTGTGA GCGGAT

26

(2) INFORMATION FOR SEQ ID NO:34:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

GGGTTTAAAC AGATCTCTGC A

21